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LIST OF THE AWARDS

MADE BY THE

United States Centennial Commission

TO THE

AMERICAN EXHIBITORS,

INTERNATIONAL EXHIBITION, 1876,

AT PHILADELPHIA.

From the OFFICIAL Lists.

PHILADELPHIA:
S. T. SOUDER & COMPANY,
No. 727 Sansom
1876.

WILL BE READY ABOUT NOVEMBER 10th.

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OF

ART, INDUSTRY, AND MANUFACTURE,

REPRESENTED AT THE

PHILADELPHIA CENTENNIAL EXHIBITION,

1876.

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LIST OF THE AWARDS

MADE BY THE

United States Centennial Commission

TO THE

AMERICAN EXHIBITORS,

Get the List for Foreign Exhibitors

INTERNATIONAL EXHIBITION 1876,

AT PHILADELPHIA.

From the OFFICIAL Lists.

PHILADELPHIA:
S. T. SOUDER & COMPANY,
No. 721 Sansom Street.
1876.

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D86

PREFACE.

THIS List of Awards made by the International Jury to American Exhibitors has been gotten out in response to constant inquiries received from all parts of the United States, and is taken from the Official Lists which were issued by the United States Centennial Commission. These lists were given to all the newspapers in the country who desired them; but as they published in their pages only the names of those residing in each particular locality, the issue of this complete list was deemed advisable by

THE PUBLISHERS.

PHILADELPHIA, *October* 19, 1876.

CONTENTS.

GROUP	PAGES
I.—Minerals, Mining, Metallurgy, and Machinery,	7, 96
II.—Pottery, Glass, Artificial Stone, etc., . .	15, 97
III.—Chemistry and Pharmacy, with the Apparatus,	18, 97
IV.—Animal and Vegetable Products—Machinery, .	21, 99
V.—Fish and Fish Products—Apparatus of Fishing,	25
VI.—Timber, Worked Lumber, Parts of Buildings, .	27, 101
VII.—Furniture, Upholstery, Wooden Ware, . .	28, 102
VIII.—Cotton, Linen, and other Fabrics, etc., . .	32, 102
IX.—Wool and Silk Fabrics—Machinery, . .	35, 103
X.—Clothing, Furs, India-Rubber Goods, etc., .	38, 103
XI.—Jewelry, Watches, Silverware, Bronzes, etc., .	42
XII.—Leather and Manufactures of Leather, etc.,	43, 104
XIII.—Paper, Stationery, Printing, and Book-making,	47, 105
XIV.—Apparatus of Heating, Lighting, etc., . .	50, 105
XV.—Builders' Hardware, Tools, Cutlery, etc., .	52, 107
XVI.—Military and Sporting Arms, Weapons, etc., .	56, 108
XVII.—Carriages, Vehicles, and Accessories, . .	57, 108
XVIII.—Railway Plant, Rolling Stock, Engines, etc., .	59
XIX.—Vessels, and Apparatus of Transportation, .	60, 108
XX.—Motors, Hydraulic and Pneumatic Apparatus,	60, 109
XXI.—Machine Tools for Wood, Metal, and Stone, .	67, 111
XXII.—Machines and Apparatus Used in Sewing, etc., .	69, 111
XXIII.—Agricultural Machines, Implements of Agriculture, etc., ...	70, 111

GROUP	PAGES
XXIV.—Instruments of Medicine, Surgery, etc.,	75, 112
XXV.—Instruments of Precision, Research, etc.,	76, 112
XXVI.—Architecture and Engineering,	79, 113
XXVII.—Plastic and Graphic Art,	80, 114
XXVIII.—Education and Science,	82, 114
XXIX.—Horticultural Appliances, etc.,	86, 115
XXX.—Horses, Mules, and Asses,	87
XXXIV.—Dogs,	89
Flour Milling Machinery,	94
Yacht Regattas,	116

LIST OF AWARDS.*

INTERNATIONAL EXHIBITION.

PHILADELPHIA, 1876.

GROUP I.

MINERALS, MINING, METALLURGY, AND MACHINERY.

F. H. Patten, Bath, Me., Feldspar and Quartz for Potteries and Sand purposes.
Cumberland Rolling Mill Co., Cleveland, Ohio, Bessemer Steel and Siemens Martin Steel Rails, Forgings, etc.
Melville Curtis, Austin, Nev., Silver Bullion, Silver Pulp, etc.
Coxe Bros. and Co., Yeddo, Pa., Model of a new Coal Breaker, Buildings, and Dressing Apparatus, and a Coal Breaking Machine.
Gen. P. Ed. Connor, Salt Lake City, Utah, Silver Ores.
Columbian Slate Co., Slatington, Pa., Roofing Slates.
The Columbian Marble Co., Rutland, Vt., Colored Marbles.
Grand Toner Mining, Transportation, and Manufacturing Co., Illinois, Pig Iron.
W. B. Coggswell, Mine La Motte, Madison Co., Mo., Lead Ores.
Coffin, Redington and Co., New York, Fine Silica for Polishing.
Ed. Clark, Great Western Quicksilver Mine, Lake Co Cal., Quicksilver Ores.
R. C. Chambers, Salt Lake City, Utah, Silver Ores.
The Forest City Stone Co., Cleveland, Ohio, Flagging Stones.
Finch, Pruyn and Co., Glenn's Falls, N. Y., Black Marble.
F. K. Fula, Baltimore, Md., Blue Stone for Flagging.
George Fellows, Napa City, Cal., Quicksilver Ores.
Alexander Faugueux, Philadelphia, Pa., Millstones.
John Evans, Morrison, Jefferson Co., Col., Building Stone.
E. D. Dougherty, Doughertyville, Hawkins Co., Tenn., Colored Marble.
C. J. Dunn, Philadelphia, Pa., Geological Map.
Quincey Manufacturing Co., Michigan, Refined Copper.
Davis and Murphy, West Joplin, Mo., Lead Ores.
Col. Wm. M. Johns, Salt Lake City, Utah, Silver Lead Ores.
W. W. Jefferis, West Chester, Pa., Minerals.
J. C. Jackson, Baker City, Oregon, Gold Ores.
J. W. Redpath, Stony Creek, Conn., Red Granite.
Chas. H. Hitchcock, Hanover, N. H., Geological Maps and Collections.
Louis Glass, Cherokee Buttes, Cal., Gold Gravels and Cement.
James C. Hand and Co., Philadelphia, Corundum Grains and Flour.
Gilson, Clement and Woodpin, Rutland, Vt., Statuary Marble.
J. W. Gashweiler, San Francisco, Cal., Silver and Gold Ores.

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* For "Additional Awards," see page ——

John R. Frink, San Francisco, Cal., Silver Ores.
T. H. King, Trumansburg, N. Y., Slabs of Blue Stone Flagging.
Knoxville Marble Co., Knoxville, Tenn., Colored Marble.
Stephen R. Krom, New York, Dry Ore Concentrators in two models, and one in full size, and Jaw Breaker.
John Lambert, Virginia City, Nev., Silver Ores (gold-bearing).
T. H. Kleinschmitt, Helena, Mon., Gold Crystals.
Leavitt Mine, Gilpin County, Col., Gold Ores.
B. F. Leet, Churchill County, Nev., Salt and Saltpetre.
Julius Louis and Bro., Jeffersonville, Ind., Oil Stone.
John W. Mackey, Virginia City, Nev., Silver Ores (gold-bearing).
Adam McLean, Belmont, Nev., Silver Ores.
Anthracite Fuel Co., Rondout, N. Y., Compressed Coal.
W. H. Allen, Belleville, Nev., Silver Ores.
Henry Balch, Virginia City, Nev., Silver Ores (gold-bearing).
Baxter Mine, Clear Creek County, Col., Silver Lead Ores.
Brass and Copper Co., Ansonia, Conn., Sheets of Brass and Copper, planished, nickel-plated, etc.
The Albany and Rensselaer Iron and Steel Co., Troy, N. Y., Bessemer Steel and Wrought-Iron Rails, Bars, Forgings, Axles, Spikes, Nails, and Horseshoes.
Bay State Iron Co., Massachusetts, Boiler Plate made from Siemens Martin Metal.
Benedict and Burnham Manufacturing Co., Waterbury, Conn., Copper, Brass, German Silver, etc.
T. F. Witherbee, Port Henry, N. Y., Combined Water Block Tuyere and Nozzle for Blast Furnaces.
Richard L. Williams, Middle Granville, Washington County, N. Y., Slate for Tiling and Roofing.
Dives Mine, Clear Creek County, Col., Silver Lead Ores.
W. B. Wells, Salt Lake City, Utah, Silver Lead Ores.
Taws and Hartman, Philadelphia, Pa., Blast Furnace Apparatus.
Thomas Sewill, Clay's Ferry, Ky., Lower Silurian Limestone, "Kentucky River Marble."
Hussey and Co., Pittsburgh, Pa., Copper, Brass, etc.
Hussey, Wells and Co., Pittsburgh, Pa., Crucible Steel Plates and Bars.
Ingersoll Rock Drill Co., New York, Rock Drill.
Jones and Laughlin, Pittsburgh, Pa., Cold Rolled Wrought-Iron Shafting.
The Lackawanna Iron and Coal Co., Scranton, Pa., Bessemer Pig-Iron and Wrought-Iron Bars.
S. L. Jones, Virginia City, Nev., Silver Ores (gold-bearing).
The Cambria Iron Co., Johnstown, Pa., Raw Materials for the Iron Manufacture and Iron and Bessemer Steel Rails and Bars.
Cartwright, McCurdy and Co., Youngstown, O., Hoop Iron.
Ohio River Salt Co., Pomeroy, O., Salt.
Mystic Bridge Granite Co., Mystic Bridge, Conn., Fine Gray Granite.
Minong Mining Co., Michigan, Native Copper.
C. S. Miller, Silver City, Idaho, Gold and Silver Ores.
John McNally, Alturas Co., Idaho, Gold Ores.
Albert Mack, Benton, Mono Co., Cal., Silver Ores.
J. B. Killebrem, Nashville, Tenn., Specimens of Tennessee Marble.
J. C. Lennox, Silver City, Idaho, Silver Gold Ores.
Kentucky Lithographic Stone Co., Glasgow Junction, Ky., Building Stone.
James C. Jackson, New York, Exhibit of Castings made by novel methods.
S. W. Hill, Michigan, Native Copper.
Riverside Iron Works, Wheeling, W. Va., Wrought-Iron.

J. D. Powers, Hawesville, Ky., Brown Sandstone.
Shelby Iron Co., Alabama, Pig-Iron.
Woodstock Iron Co., Alabama, Iron Ores, Pig-Iron for Car Wheels, and Spiegel.
The Barnum-Richardson Co., Lime Rock, Conn., Pig-Iron for Car Wheels.
O. W. Davis, Bangor, Me., Pig-Iron.
Pope, Cole and Co., Baltimore, Md., Copper Matte, Refined Copper.
Reese, Graff and Woods, Pittsburgh, Pa., Wrought-Iron and Steel Bars, and Horseshoes.
Phosphor-Bronze Smelting Works, Philadelphia, Pa., Phosphor-Bronze.
Revere Copper Co., Boston, Mass., Copper, Brass, Bronze, Cannon, etc.
Portland Brown Stone Quarry Co., Portland, Conn., Brown Sandstone —Portland, Conn.
M. F. Richery, Waverly, O., Building Stone.
Ozaic Granite Works, St. Louis, Mo., Red Granite.
North Pittsford Marble Co., Pittsford, Vt., Marbles.
North Bend Slate Co., Middle Granville, Washington Co., N. Y., Red, Green, and Purple Slate.
New England Granite Co., Hartford, Conn., Granite.
J. C. McDermott and Co., Berea, O., Building Stone.
L. Haldeman and Son, Amherst, O., Building Stone.
H. D. Gurney, St. Paul, Minn., Blocks of Granite.
Farist and Windsor, Bridgeport, Conn., Steel.
Dexter and Co., New York City, Mica.
Coshocton Stone Co., Coshocton, O., Building Stone.
Clough Stone Co., Amherst, O., Building Stone.
C. H. Clemens, Sandusky, O., Building Stone.
Black River Stone Co., Grafton, O., Sandstone.
D. C. Stalter, Piqua, O., Building Stone.
Caldwell and Mather, Philadelphia, Pa., Improved Wind Furnace.
E. Mortimer Bye, Wilmington, Del., Verd Antique Marble from Harford County, Md.
Weimar Machine Works, Lebanon, Pa., Blowing Engine and other Blast Furnace Machinery.
Henry Auer, Philadelphia, Pa., Silver Leaf.
Thomas Allen, St. Louis, Mo., Lead Ores.
Thomas Wren, Eureka, Nev., Silver Lead Ores.
Worthington and Sons, North Amherst, O., Grindstones and Scythe Stones, and Sandstones.
Theodore Winters, Virginia City, Nev., Silver Ores (gold-bearing).
E. R. Willis, Pine Grove District, Nev., Gold Ores.
Wm. Willis, San Francisco, Cal., Silver Ores.
Joseph Wharton, Camden, N. J., Ores of Nickel and Cobalt, and Results of their Treatment.
S. Wenbare, Cortez Mining District, Nev., Silver Lead Ores.
Washington Mills Emery Mfg. Co., Ashland, Mass., Emery Grains and Flour.
Henry A. Wards, Rochester, N. Y., Paleontological Models.
Joseph Trask, Nevada, Silver Ores.
T. G. Taylor, Virginia City, Nev., Silver Ores (gold-bearing).
Tatham and Bro., Philadelphia, Pa., Sheet Lead and Tin-lined Lead and Iron Pipes.
Sherman Mine, Boulder County, Col., Silver Lead Ores.
John Shaw, Eureka, Nev., Silver Lead Ores (gold-bearing).
Rhodes and Wasson, Nevada, Borax and Salt.
Joseph Richards, Battle Mountain, Nev., Copper Ores.

M. F. Randolph, Morey District, Nev., Silver Ore
Printer Boy Mine, Lake Co., Col., Gold Ores.
Edwin P. Ball, Chicopee, Mass., Steam Stamping Machine for Crushing Ores and Rocks.
Glasgow Port Washington Iron and Coal Co., Port Washington, O., Pig Iron.
Tuscarawas Coal and Iron Co., Cleveland, O., Pig Metal.
Pocahontas Mine, Fremont Co., Col., Silver Ores.
Pelican Mine, Clear Creek Co., Col., Silver Lead Ores.
J. A. Myrick, Virginia City, Nev., Silver Ores (gold-bearing).
Moose Mine, Park Co., Col., Silver Ores.
J. E. Mitchell, Philadelphia, Pa., Grindstones and Fixtures.
Pennsylvania Marble Co., Philadelphia, Pa., Black Marble from Lycoming Co., Pa.
Perry Bros., Elletsville, Ind., Building Stone.
James P. Pierce, Excelsior W. and M. Co., San Francisco, Cal., Gold Gravels and Cement.
James A. Pritchard, San Francisco, Cal., Silver Ores.
Theo. D. Rand, Philadelphia, Pa., Minerals.
J. B. Randoul, New Almaden, Cal., Quicksilver Ores.
David Read, Burlington, Vt., Colored Marble.
Reed and Benson Mine, Big Cottonwood District, Utah, Silver Lead Ores.
Ripley and Son, Rutland, Vt., Slabs of Sawed and Polished Marble from West Rutland, Vt.
Edward Roberts and Co., Buckingham Co., Va., Roofing Slate.
Rutland Marble Co., Rutland, Vt., White and Colored Marble.
San Jacinto Tin Manufacturing Co., Temescal, Cal., Tin and Tin Ores.
St. Johnsbury Granite Co., St. Johnsbury, Vt., Granite Monuments and Tablets.
Schuylkill Copper Co., C. M. Wheatley, Phœnixville, Pa., Copper and Copper Ores.
The Tubular Barrow and Truck Manufacturing Co., New York City, Furnace Wheelbarrows.
Shaler and Hall, Portland, Conn., Brown Sandstone.
Sheldon and Slosson, West Rutland, Vt., Block of Statuary Marble.
George Lisiz, Springfield, Clark Co., O., Building Stone.
Amherst Stone Co., North Amherst, O., Sandstone.
Berea Stone Co., Berea, O., Sandstone.
J. Park Alexander, Akron, O., Clays and Sand for Pottery.
Philadelphia Galvanizing Co., Philadelphia, Pa., Galvanized Sheet Iron.
Phœnix Iron Co., Philadelphia, Pa., Rolled Iron Beams, Columns, and Shapes.
Penn Galvanic Works, Philadelphia, Pa., Galvanized Sheet Iron.
McCullough Iron Co., North East, Md., Galvanized Sheet Iron.
Marshall Bros. and Co., Philadelphia, Pa., Sheet and Bar Iron and Galvanized Iron.
M. M. Manly and Son, Pennsylvania, Rolled Iron Hand Rail.
Madison Co. Pottery Co., Richmond, Ky., Pottery.
Passaic Zinc Co., New York, Ores, Spelter, Sheet Zinc and Castings and Zinc Oxide.
Tiburcio Parrott, San Francisco, Cal., Sulphur and Quicksilver.
W. Leets Oliver, San Francisco, Cal., Gold Ores.
Norcross Bros., East Longmeadow, Mass., Brown Sandstone.
Norris and Cummings, Bedford Quarries, Lancaster Co., Ind., Building Stone.
New England Granite Co., Westerly, R. I., Slabs and Blocks of Granite.

George M. Mowbray, North Adams, Mass., Apparatus for Blasting Mines, Electric Battery, Fuses, etc.
B. B. Minor, San Francisco, Cal., Silver and Gold Ores.
John Matthews and Son, Elletsville Quarries, Monroe Co., Ind., Building Stone.
Maine Red Granite Co., Red Beach, Calais, Me., Red Granite from Red Beach, Calais, Me.
Maine Slate Co., Skowhegan, Me., Slate from Skowhegan, Me.
Captain Jas. A. Lusk, Shoebridge Mining Co., Salt Lake City, Utah, Silver Ores.
T. B. Ludlam, Cedar Creek Mining Co., Dutch Flat, Cal., Gold Gravels and Gold Cements.
Prof. De Volson Wood, Stevens Institute, Hoboken, N. J., Rock Drills (of two sizes).
Wilbraham Bros., Philadelphia, Pa., Baker's Pressure Blower.
J. E. Strauss and Co., Philadelphia, Pa., Galvanized Sheet Iron.
Keystone Bridge Co., Pittsburgh, Pa., Iron for Bridges.
Geo. S. Mepham, St. Louis, Mo., Mineralogical Collections.
Butterfield and Smith, Cambridgeport, Vt., Steatite.
Burlington Manufacturing Co., Burlington, Vt., Moriot Marble.
T. T. Bouve, Boston, Mass., Polished Porphyries from Massachusetts.
Marcus Bosler, Dayton, O., Building Stone.
Capt. R. Bledsoe, Consolidated South Mountain Mining and Smelting Co., Idaho, Silver Lead Ores (gold-bearing).
D. H. Bentley, Salt Lake City, Utah, Silver Ores.
V. G. Bell, French Corral, Nevada, Cal., Gold Gravel and Cement.
Thomas Bell, San Francisco, Cal., Quicksilver Ores.
George Barney and Son, Swanton, Vt., Colored Marbles.
Judge W. S. Barbee, St. George, Utah, Silver Ore.
Amherst Stone Co., Cleveland, O., Grindstones.
George K. Tyson, Philadelphia, Pa., Phosphor-Bronze.
Pennsylvania Steel Co., Harrisburg, Pa., Objects of Steel and Steel Ingots.
Diamond State Iron Co., Wilmington, Del., Iron Bolts, etc.
Wilson, Walker and Co., Pittsburgh, Pa., Wrought Iron Forgings.
N. and G. Taylor and Co., Philadelphia, Pa., Tin Plate.
C. W. Lovett, Boston, Mass., Collection of Polished Ornamental Stones.
Samuel Linton, Silver City, Idaho, Gold Ores.
Emanuel Link, Salem, Washington Co., Ind., Building Stone (Oolitic Limestone).
Joel F. Lightener, San Francisco, Cal., Gold and Silver Ores.
Lehigh Zinc Co., Bethlehem, Pa., Ores, Spelter, Sheet Zinc, and Zinc Oxide.
Dr. Jos. Gardner, Indiana, Clay (Indianaite).
John Catalon, Silver City, Idaho, Silver-Gold Ores.
Niblock, Zimmerman and Alexander, Brazil, Ind., Compressed Air Coal-Cutting Machine.
Wm. Clark and Co., Pittsburgh, Pa., Hoop Iron.
Nez-Perce and Montreal Mines, Bingham Canon, Utah, Silver Lead Ores.
Chemical Copper Co., Phœnixville, Pa., Copper Ores and Products.
P. H. and F. M. Roots, Connersville, Ind., Rotary Power Blower.
M. and J. Fennegan, Cincinnati, O., Building Stone from Buena Vista, Ohio.
E. R. Beadle, D.D., Pennsylvania, Minerals.
Rev. C. D. Smith, Franklin, N. C., Mineralogical Collection.
L'Anse Brown Stone Quarry Co., L'Anse, Lake Superior, Mich., Brown Freestone.
Hastings and Co., Philadelphia, Pa., Gold Leaf and Dental Foil.
C. H. Hitchcock and W. P. Blake, Hanover, N. H., and New Haven, Conn., Geological Maps.

J. R. Harvey, Iowa, Lead Ores.
Edgemoor Iron Co. (Wm. Sellers and Co.), Philadelphia, Pa., Rotary Puddling Furnace, and Links for Bridges.
Cooper, Hewitt and Co., New York, N. Y., Wrought Iron Beams, Bars, Chains, and Wire.
Crocker Bros. and Co., Taunton, Mass., Copper, Brass, Zinc.
James B. Hoggin, Eureka, Nev., Silver Lead Ores (gold-bearing).
Theodore A. Hale, Nevada, Native Sulphur.
Bridgewater Iron Co., Bridgewater, Mass., Brass and Copper Tubes, Chilled Rolls, Wrought Iron, Steel Forgings, and Nails.
Horace A. Beale, Parkersburg, Pa., Wrought Iron Plates and Puddled Bars.
Adirondack Steel Works, Jersey City, N. J., Steel Ingots and Forgings.
Yale Lock Manufacturing Co., Stamford, Conn, Nickel Anodes.
J. T. Wilder, Chattanooga, Tenn., Collection of Marble and Ores.
Joseph Wilcox, Philadelphia, Pa., Minerals.
Wilson and Hughes Stone Co., Cleveland, O., Building Stone.
C. B. Wells, Marietta, O., Building Stone called "Constitution Stone."
J. S. Waterman, Philadelphia, Pa., Silver Lead.
Warthorst and Co., Massillon, O., Building Stone and Grindstones.
Walker Bros., Salt Lake City, Utah, Silver Lead Ores.
Vitrified Wheel and Emery Co., Ashland, Mass., Manufactured Emery, Grain and Flour.
Valentines and Co., Bellefonte, Pa., Pig and Wrought Iron.
Union Consolidated Copper Co. (J. E. Raht), Ducktown, Tenn., Copper and Copper Ores.
Sutherland Falls Marble Co., Sutherland Falls, Va., Clouded Marbles.
Struthers and Son, Philadelphia, Pa., Wrought Marbles and Granites.
S. M. Stone, New Haven, Conn., Milford Verd Antique Marble.
Z. S. Stocking, Mansfield, O., Variegated Sandstone.
L. Hanchet, Belmont, Nev., Silver Ores.
S. T. Hauser, Helena, Montana Ter., Placer Gold.
Charles G. Heath, Pioche, Nev., Silver Ores and Rock Salt.
Hercules and Roe Mine, Clear Creek Co., Col., Silver Lead Ores
John Howell, Oneota District, Nev., Silver Ores.
Capt. F. H. Hoskins, Mineral Hill, Nev., Silver Ores.
I. B. Hudson, Tybo, Nev., Silver Lead Ores.
Idaho Mine, Boulder Co., Col., Silver Ores.
Dolly Varden Mine, Park Co., Col., Silver Ores.
Henry Donnelly, Virginia City, Nev., Silver Ores (gold-bearing).
Capt. F. Drake, Hamilton, Nev., Silver Ores.
Jas. G. Fair, Virginia City, Nev., Silver Ores (gold-bearing).
Pottstown Iron Co., Pottstown, Pa., Wrought Iron Plates and Bars.
Philadelphia and Reading R. R. Co., Reading, Pa., Iron Rails and Rail Piles.
Singer, Nimick and Co., Pittsburgh, Pa., Martin and Crucible Steel Plates and Bars.
Bobtail Mine, Gilpin Co., Col., Gold-bearing Pyrites.
Boyd and Chase, New York, Oil Stones.
W. A. H. Schreiber, Phœnixville, Pa., Clay, Kaolin, Flint, Spar, and Sand for Potters.
Henry Roberts, Newark, N. J., Steel Wire.
Dr. Chas. D. Pearson, Indiana, Clay (Indianaite).
Francis Murphy, Streator, Ill., Ventilating Apparatus.
George Such, South Amboy, N. J., Clays.
Lehigh Whetstone Co., Allentown, Pa., Whetstones.
J. Lacey, Hockessin, Del., Kaolin.

B. Kreischer and Son, Philadelphia, Pa., Fire Clay and other Clays.
Hampton, Cutter and Sons, Woodbridge, N. J., Clays, Kaolin, Sand.
Dover Fire-Brick Co., Canal, Dover, O., Fire Clay.
E. and G. Brooke, Birdsboro, Pa., Wrought Iron.
H. Bradford, Philadelphia, Pa., Quartz Rock.
American Kaolin Co., New Garden, Pa., Kaolins, Clays, and Sand.
J. T. Ames, Springfield, Mass., Emery.
American Tube Works, Boston, Mass., Brass and Copper Tubes.
Henry Barker and Sons, Quincy, Mass., Pedestals of Cape Ann and Quincy Granite.
Belknap and Co., Bowling Green, Ky., Oolitic Limestone.
J. H. Brinton, Philadelphia, Pa., Block and Vases of Serpentine from Brandywine, Pa.
Calumet and Hecla Mining Co., Michigan, Copper and Copper Ores, with Model of Stamping Mill.
New Jersey Zinc Co., New Jersey, Spiegeleisen.
Burt Free Sandstone Co., Marquette, Mich., Sandstone.
Bela S. Buel, Buel Gold Mine, Central City, Col., Gold Ores.
Captain H. H. Day, Pioche, Nev., Silver Ores.
Moorhead and Co., Pittsburgh, Pa., Sheet Iron and Galvanized Iron.
A. O'Niel, Ansonia, Conn., Planished Nickel, Brass, Copper, etc.
C. B. Parsons, St. Joe Mine, St. Francois Co., Mo., mass of Galena.
Passaic Rolling Mill Co., New Jersey, Rolled Wrought Iron Beams and Shapes.
Pennsylvania Lead Co., Refined Lead.
W. Harris, Michigan, Native Silver and Copper.
Frankfort Quarry Co., Benson Creek, Ky., Bluish-Gray Mottled Limestone.
A. J. Corey, Michigan, Native Silver.
Chrome Steel Co., Brooklyn, N. Y., Test Steel, Soft Steel, and Combined Steel and Iron Plates.
Chapman Slate Co., Bethlehem, Pa., Slate.
C. H. Chandler, Brownsville, Me., Roofing Slate.
Central Ohio Salt Co., Columbus, O., Salt.
John M. Cochran and Co., Bradford, Pa., Connellsville Coke.
Loiseau Pressed Fuel Co., Philadelphia, Pa., Compressed Fuel.
Pottstown Iron Co., Pottstown, Pa., J. C. Gould's Nail Feeding Machine.
B. F. Sturtevant, Boston, Mass., Sturtevant Fan and Pressure Blowers.
H. Burgden and Sons, Troy, N. Y., Wrought Iron Bars and Horseshoes.
Henry Disston and Son, Philadelphia, Pa., Cast Steel Ingots, Blooms, and Plates.
S. C. Torraill and Co., Manchester, N. H., Abbe Bolt-forging Machine.
John Hyslop, Jr., Arlington, Mass., Tack Machine.
Lobdell Car Wheel Co., Wilmington, Del., Rivet-making Machine.
Pennsylvania Tack Works, Norristown, Pa., Machines for Making Tacks.
Plumb, Rardick and Barnerd, Buffalo, N. Y., Bolt-forging Machine.
C. W. Jenks, Jenks Mine, Macon Co., N. C., Corundum.
Chas. C. Stevenson, Gold Hill, Nev., Amalgamating Machine.
Brown and Co., Wrought Iron Boiler Plates and Bars.
Blake Crusher Co., New Haven, Conn., Machine for Crushing Ores, Stones, etc.
Union Iron Co., Buffalo, N. Y., Wrought Iron Beams.
Union Iron Mills, Pittsburgh, Pa., Rolled Iron Shapes.
The Washburn and Moen Co., Worcester, Mass., Iron and Steel Wire.
Bridgewater Iron Co., Bridgewater, Mass., Copper and Brass.
Walton Gold Mine, Louisa Co., Va., Gold-bearing Quartz.
Waterbury Brass Co., Waterbury, Conn., Brass, German Silver.

Alan Wood and Co., Philadelphia, Pa., Planished Sheet Iron.
W. D. Wood and Co., Pittsburgh, Pa., Planished Sheet Iron.
William Wiler, Philadelphia, Pa., Brass.
G. N. Adams, Lucen Dist., Utah, Lead Ores, and Arragonites.
Philadelphia Iron and Steel Co., Philadelphia, Pa., Rolled Iron Shapes.
Phillips, Nimick and Co., Pittsburgh, Pa., Wrought Iron Bars and Boiler Plates.
John Roach and Son, Chester, Pa., Iron Boiler Plates, and Forgings of large Dimensions.
James Rowland and Co., Philadelphia, Pa., Wrought and Steel Sheets and Bars.
Scoville Manufacturing Co., Waterbury, Conn., Brass, German Silver, etc.
Stewart and Co., Easton, Pa., Wire.
The Edgar Thompson Steel Co. (limited), Pittsburgh, Pa., Bessemer Steel Ingots, Rails, and Forgings
Manhattan Brass Co., New York City, Brass, Copper, Zinc, etc.
The Midvale Steel Works, Pa., Tubes, Bars, Forgings, and Castings of Crucible and Siemens Martin Steel.
Miller, Metcalf and Parkins, Pittsburgh, Pa., Crucible Steel for Tools.
I. P. Morris and Co., Philadelphia, Pa., Blowing Engine for Blast Furnace.
The Nashua Iron Co., Nashua, N. H., Iron and Siemens Martin Steel Forgings.
New Bedford Copper Co., New Bedford, Mass., Copper.
Otis Iron and Steel Co., Cleveland, Ohio, Siemens Martin Steel Boiler Plate.
Park Bros. and Co., Pittsburgh, Pa., Crucible Steel Boiler Plate and Bars.
A. Garrison and Co., Pittsburgh, Pa., Chilled Rolls.
A. G. Harris, Johnstown, Pa., Brick Bottoms and Tuyeres for Bessemer Converters.
James Henderson, Pennsylvania, Malleable Iron.
Holme, Booth and Hayden, Waterbury, Conn., Brass and German Silver.
Chas. W. Hunt, New York City, Machinery for unloading Vessels and Storing Cargoes.
C. C. Carpenter, Kelley's Island, O., Geological Specimens.
Catasauqua Iron Co., Catasauqua, Pa., Wrought Iron Bars.
Bowen and Signer, Saranac, N. Y., Wrought Iron Blooms, Bars and Horse Nails.
American Galvanizing Works, Pennsylvania, Galvanized Sheet Iron.
Allentown Rolling Mill Co., Allentown, Pa., Wrought Iron Bars.
Pierce Well Excavator Co., Peru, La Salle Co., Ill., Well Excavator.
Potts Brothers, Pottstown, Pa., Boiler Plate.
Plymouth Granite Co., Thomaston, Conn., Granite.
I. B. Palmer, Millstone Point, Conn., Granite.
W. H. B. Thomas, Danville, N. J., Rose Crystal Marble.
Stitt, Price and Co., Columbus, O., Building Stone.
J. C. Fall, Unionville, Nev., Silver Ores.
A. E. Foote, Philadelphia, Pa., Collections of Minerals.
E. Ganjot, Michigan, Copper.
Dr. J. M. Goodfellow, Cornucopia District, Nev., Silver Ores.
Gregory Mine, Gilpin Co., Col., Gold-bearing Pyrites.
J. Grimes, Belmont, Nev., Silver Ores.
Briggs Mine, Gilpin Co., Col., Gold Ores.
—— Browning, Churchill Co., Nev., Crude Soda.
T. R. Butler, Pioche, Nev., Silver Ores.
Geo. B. Clarke, Reveille District, Nev., Silver Ores.
Coldstream Mine, Clear Creek Co., Col., Silver, Lead Ores.

J. J. Corrigan, Eureka, Nev., Silver Lead Ores (gold-bearing).
Allen A. Curtis, Austin, Nev., Silver Ores.
S. T. Curtis, Virginia City, Nev., Silver Ores (gold-bearing).
Robert Hare Powell and Co., Philadelphia, Pa., Iron Ores, Coals, Coke, etc.
Stoner, Hitchmann and Co., Mt. Pleasant, Pa., Coke.
A. M. Hutchinson and Bro., Pittsburgh, Pa., Coke.
Hugh Campbell and Son, New Jersey, Newry Granite Polishing Works, Wrought Granite.
W. Weaver, Phœnixville, Rock Drill.
Vermont Copper Co., Vermont, Copper and Copper Ores.
Central Mine, Michigan, Native Copper.
I. G. I. Rogers Iron Co., Iron.
State of Tennessee, Geological Collection.

GROUP II.

POTTERY, GLASS, ARTIFICIAL STONE, ETC.

Galloway and Graff, Philadelphia, Pa., Artistic Terra Cotta.
W. W. Walker and Co., Wellsville, O., Glazed Sewer Pipes.
Harvey and Adamson, Philadelphia, Pa., Drain Pipes.
Richard C. Remmey, Philadelphia, Pa., Chemical Stoneware.
Laughlin Bros., East Liverpool, O., White Granite Wares.
American Crockery Co., Trenton, N. J., White Granite Wares.
Glasgow Pottery Co., Trenton, N. J., White Granite Wares.
Wm. Young, Trenton, N. J., White Granite Table Wares, " C. C." Wares.
Astbury and Maddox, Trenton, N. J., Sanitary Earthenware.
Mercer Pottery Co., Trenton, N. J., White Granite Table Wares and Gilded Decoration.
Isaac Davis, Trenton, N. J., White Granite Wares.
Dover Fire Brick Co., Canal Dover, O., Fire Brick.
B. Kreischer and Son, New York City, Clay Retorts, Muffle or Assay Furnaces.
Gillinder and Sons, Philadelphia, Pa., Flint and Glass Ware.
Hartell and Letchworth, Philadelphia, Pa., Cut and Etched Lamp Globes.
Joseph H. Moore, Trenton, N. J., White Granite Table Wares, Bisquit and Parian.
Robert Taylor and Co., Philadelphia, Pa., Black Lead Crucibles and large Stills for Zinc.
Union Mining Co., Mt. Savage, Alleghany Co., Md., Fire Brick for Blast Furnaces and Siemens Martin's Furnaces.
Phœnix Manufacturing Co., Taunton, Mass., Black Lead Crucibles for Smelting Steel, Bronze, etc., and Stills for Zinc.
Geo. C. Hicks and Co., Baltimore, Md., Clay Gas Retorts, largest size, Gas Works Tiles, and Fire Brick.
Philip Newkumet, Philadelphia, Pa., and Perth Amboy, N. J., Clay Retorts for Gas Works, Fire Brick for Gas Works, Blast Furnaces, etc.
Kier Bros., Salina, Pa., Fire Brick, Furnace Brick, Arches and Keys.
A. J. Haws, Johnstown, Pa., Fire Bottom for Bessemer Steel Converter, Fire Clay Tuyeres, Patent Nozzles and Sluices for Ladle Rods and Furnace Brick.
Newton and Co., Albany, N. Y., Fire Brick Linings for Stoves, Ranges and Heaters.

Louisville Plate Glass Co., Louisville, Ky., Large Glass Plate.
Thos. C. Smith and Sons, Greenpoint, N. Y., White Porcelain Wares.
S. P. Sallandrouze, Cincinnati, O., Silvering of Large Plate Glass.
D. Durand, New York, Mirror Cut and Ornamented in the Venetian Style.
Central Glass Co., Wheeling, W. Va., Lime Glass Pressed Table Wares.
J. M. Albertson and Sons, Norristown, Pa., Glass Shades.
Rochester Tumbler Co., Pittsburgh, Pa., Glass Tumblers.
Geo. Duncan and Sons, Pittsburgh, Pa., Lime Glass Table Wares.
O'Hara Glass Co., Pittsburgh, Pa., Lime Glass Table Wares.
Bakewell, Pears and Co., Pittsburgh, Pa., Moulded Glass Table Wares, etc.
Keystone Flint Glass Co., Pittsburgh, Pa., Lamp Glasses.
Excelsior Flint Glass Co., Pittsburgh, Pa., Lamp Chimneys and Reflectors.
New England Glass Co., East Cambridge, Mass., Flint Glass Table Wares and Decorative Pieces.
Boston and Sandwich Glass Co., Boston, Mass., Flint Glass Table Wares, etc.
Mount Washington Glass Works, New Bedford, Mass., Flint Glass Table Wares and Chandeliers, and Bone Glass.
Smith Bros., New Bedford, Mass., Opal or Bone Glass Lamp Shades.
H. C. Fox and Sons, Philadelphia, Pa., Druggists' and Perfumers' Glass Wares.
Dorflinger Glass Co., White Mills, Wayne Co., Pa., Glass Table Wares.
La Belle Glass Co., Bridgeport, O., Glass Table Wares, moulded.
McElroy and Co., Philadelphia, Pa., White Clay Tobacco Pipes.
Atterbury and Co., Pittsburgh, Pa., Lime Glass Lamps, Lamp Chimneys and Globes.
C. Newman and Co., San Francisco, Cal., Glass Demijohns, covered with Tule Packing.
Brunt, Bloor, Martin and Co., East Liverpool, Ohio, White Granite Wares.
Bevington and Winters, Philadelphia, Pa., Furnace for Decorating China or Glass.
Cohansey Glass Co., Philadelphia, Pa., Window Glass, Fruit Jars, etc.
Homer Brooke, New York, Presses for Glass.
Wm. L. Gregg, Philadelphia, Pa., Gregg's Triple Pressure Brick Machine, and Gregg's Ceramic Gas Kiln.
Excelsior Brick and Stone Co., Philadelphia, Pa., Excelsior Brick Machine.
Wampum Cement and Lime Co. (Limited), New Castle, Pa., Portland Cement and Artificial Stone made from same.
Augustus Morand, Philadelphia, Pa., Plastic Brick Machine and Kiln for burning by successive chambers.
C. W. Boynton, Woodbridge, N. J., Vitrified Drain and Sewer Pipe, Perforated Voussoirs and Perforated Solid Slabs.
Carson and Sons, Riverton, Warren Co., Va., One Jar of Unslaked Lump Lime.
S. M. Hamilton, Baltimore, Md., Cumberland Cement.
S. Williams and Son, Philadelphia, Pa., Brick Presses.
F. L. and D. R. Cornell, Philadelphia, Pa., Brick Presses of various sizes.
S. P. Miller and Sons, Philadelphia, Pa., Hand Presses for Pressing Bricks and Fire Bricks.
Cedar Hollow Lime Company, Philadelphia, Pa., Lime, Model of Lime Kiln, and Model of House for Storage of Lime, and of Car for Transporting it.
F. P. Albert, New York City, Composition Sewer Pipes and Sewer Inverts.
The Brick Enamelling Company, Philadelphia, Pa., Enamelled Brick in a variety of Colors.
Wm. Chambers, Philadelphia, Pa., Brick-making Machine—operates by expressing the Clay.
Geo. Richardson, Milwaukee, Wis., Carbonized Artificial Stone, Sewer Pipe, and Pipe Mould.

Geo. Carnell, Philadelphia, Pa., Clay Tempering Mill.
John Ambruster, Camden, N. J., A Selection of Masonry, laid with Hand-pressed Brick, with a Fancy Bond.
I. W. Stockwell, Portland, Me., Cement Pipe Mould operated by Power.
The Union Stone Company, Boston, Mass., Artificial Soapstone Register Borders and Stovepipe Insulators.
James T. Allen, Philadelphia, Pa., Scagliola and Marezzo, Artificial Marble, Columns, Pedestals, Pilasters, Mantels, Wainscoting, etc.
Wilson Mitchell, Philadelphia, Pa., Compressed Paving Tiles of various Colors.
D. W. Denton, Philadelphia, Pa., Artificial Slate Roofing, applied warm in a Sheet.
The Coplay Cement Company, Allentown, Pa., Saylor's Portland Cement, Coplay Hydraulic Cement, Anchor Cement, and Artificial Stone.
P. P. Quackenboss, Philadelphia, Pa., Four Large Artificial Stone Vases.
I. P. Alexander, Akron, Ohio, Fire Bricks.
Isaac Gregg, Jr., and Co., Philadelphia, Pa., Brick Machine, and one Face-Brick pressed edgewise.
The Fire Proof Building Co. of New York, New York City, Fire Proof Hollow Block of Teil Lime Composition for Building Purposes.
Charles Tremain, Manlius, Onondaga Co., N. Y., Hydraulic Cement, and Flagging, Building Blocks, and Ornaments made from same.
Howe's Cave Association, Howe's Cave, N. Y., Natural Hydraulic Cement—three Barrels from Different Strata of the Quarry.
The Allen Cement Company, Siegfried's Bridge, Pa., Natural Hydraulic Cement.
Adam Weber, New York City, Fire Bricks, Clay, and Enamelled Clay Retorts.
Burns, Russell and Co., Baltimore, Md., Hand-pressed Brick Masonry.
J. Goebel and Co., New York City, Crude and Burned German Clay, and Glass-melting Pots made from same.
Roland and Sprogle, New York City, Artificial Carburetted Stone.
Baltimore Terra Cotta Works (E. W. Rittenhouse and Bro.), Baltimore, Md. Terra Cotta Drain and Sewer Pipe.
A. G. Day, Seymour, Conn., Vulcanized Paving Blocks.
Phœnix Stone Manufacturing Co., Philadelphia, Pa., Artificial Stone Flagging and Building Blocks.
A. Hall and Sons, Perth Amboy, N. J., Brown and Yellow Ware, White and Black Bricks and Fire Bricks.
The Great American Brick Machine Co., Croton Landing, N. Y., Imperial Brick Machine and Imperial Brick Truck.
Davis and Chaddock, Boston, Mass., Fire Brick.
Mississippi Lime Co., Boston, Mass., One Jar of Air-Slaked Lime.
Ott and Brewer, Trenton, N. J., White "Granite" Wares and Parian Figures and Plaques.
I. H. Hobbs, Brockunier and Co., Wheeling, W. Va., Lime Glass Table Wares.
J. E. Jeffords and Co., Philadelphia, Pa., Brown Rockingham and Yellow Earthen Ware.
J. B. Dobleman, Greenpoint Flint Works, Brooklyn, N. Y., Flint Glass Table Wares, etc.
American Kaolin Co., Philadelphia, Pa., Fire Bricks.
Whitall, Tatum and Co., Philadelphia, Pa., Chemists', Druggists' and Perfumers' Wares of Lime and Green Glass.

GROUP III.

CHEMISTRY AND PHARMACY, WITH THE APPARATUS.

J. W. R. Schmeds, New York, N. Y., Rotating Steam Coil.
American Fusee Co., Erie, Pa., Safety Matches, Fusees, etc.
American Bronze Powder Co., Bronze Powders.
E. B. Benjamin, New York, N. Y., Chemicals and Chemical Apparatus.
Barber Match Co., Akron, Ohio, Drawing-Room and Sulphur Matches.
H. A. Bartlett and Co., Philadelphia, Pa., Blacking.
Bradley Fertilizer Co., Boston, Mass., Manures.
L. Brandeis and Co., New York, N. Y., Bronze Powders.
Adams White Lead Co., Baltimore, Md., White Lead.
Bihn and Co., Bridesburg, Philadelphia, Pa., Lamp Black.
Averill Chemical Paint Co., New York, N. Y., Ready Prepared Paints.
Billings, Clapp and Co., Boston, Mass., Pharmaceutical Chemicals.
Joachim Bishop, Sugartown, Chester Co., Pa., Platinum Ware.
S. M. Bixby, New York, N. Y., Blacking, Shoe Dressing, etc.
J. P. Anderson, Philadelphia, Pa., Confectioners' Machine Tools.
Brooklyn White Lead Co., New York, N. Y., Lead Colors.
B. F. Brown and Co., Boston, Mass., Blacking, etc.
Browning Bros., Philadelphia, Pa., Acids, Extracts, Sugar of Lead, etc.
Joseph Burnett and Co., Boston, Mass., Cologne, Flavor Extracts, etc.
Carter, Dinsmore and Co., Boston, Mass., Inks, Mucilage.
James Chalmers and Sons, Williamsville, N. Y., Gelatin.
Charel and Howe, New York, N. Y., Lubricant.
Chase and Co., Boston, Mass., Bonbons, etc.
John R. Climers, Philadelphia, Pa., Albumenized Paper.
Colgate and Co., New York, N. Y., Fancy Soaps and Perfumery.
J. W. Colton, Westfield, Mass., Fruit Flavors, Perfumes.
Colwell and Bro., New York, N. Y., Vacuum Pan for Sugar Boiling.
Conait, Hanson and Co., Newark, N. J., Electro-Plating Materials.
Continental Mnfg. Co., Philadelphia, Pa., Inks, Mucilage, etc.
Wm. Conway, Philadelphia, Pa., Soap.
Caleb Cook, Provincetown, Mass., Watch and Clock Oil.
Cook and Pulver, Albany, N. Y., Lubricant.
George S. Coyne, Philadelphia, Pa., Dyewoods, Acids, Chemicals, etc.
Croft, Wilbur and Co., Philadelphia, Pa., Confectionery.
Thaddeus Davids and Co., New York, Inks, Wafers, Mucilage.
E. M. Dexter and Co., Philadelphia, Pa., Confectionery.
William Dreydoppel, Philadelphia, Pa., Soap.
Harry Erwin and Co., Bethlehem, Pa., Mineral Paints.
E. B. Estts and Son, New York, N. Y., Sign Painters' Smalts.
George J. Faller, Philadelphia, Pa., Sewing Machine Oil.
Francis and Loutrel, New York, N. Y., Copyable Printing Ink.
Frazer Lubricator Co., New York, N. Y., Axle Grease.
Arthur Fricke, Philadelphia, Pa., Perfumery.
Alexander Fries and Bros., Cincinnati, O., Ethers.
Fritzsche, Schimmel and Co., New York, N. Y., Essential Oils, Essences, etc.
O. S. Follett, New York, N. Y., Chemicals.
Joseph Fromherz, Cincinnati, O., Inks.
Mrs. John Gardner, Philadelphia, Pa., Confectionery Machinery.
William J. M. Gordon, Cincinnati, O., Glycerine.
Greenfield and Straus, New York, N. Y., Confectionery.

Hale and Parshall, Lyons, Wayne Co., N. Y., Oils of Peppermint, Spearmint, etc.
Alfred L. Hance, Photographic Products.
Hartman, Laist and Co., Cincinnati, Ohio, Glycerine.
C. L. Hathaway and Sons, Boston, Mass., Burnishing Ink, etc., for Leather.
S. S. Hepworth, New York, N. Y., Machines for Draining Sugar.
H. G. Hotchkiss, Lyons, N. Y., Oil of Peppermint, etc.
L. B. Hotchkiss, Phelps, N. Y., Oil of Peppermint, Spearmint, Wintergreen and Tansy.
Jos. E. Hover and Co., Philadelphia, Pa., Inks.
Robert Hutter, Philadelphia, Pa., Starch, Sugar and Glucose.
Hyde Bros. and Swift, New York, N. Y., Animal Oils for Tanners' use.
John W. Jarboe, New York, N. Y., Diamond Enamel Paint.
Jarves and Hooper, Detroit, Mich., Animal Charcoal, Fertilizers and Glue.
John Jewett and Sons, New York, N. Y., White Lead.
Chas. Enue Johnson and Co., Philadelphia, Pa., Printing Inks.
Henry M. Johnson, New York, N. Y., Kalsomine and Fresco Paints.
Ezra Kelly, Watch and Clock Oil.
Kokosing Oil Co., Gambier, Ohio, Lamp Black.
Kreider, Campbell and Co., Philadelphia, Pa., Paint Mill.
Kurlbaum and Co., Philadelphia, Pa., Camphor and Chemicals.
F. Laurent, Philadelphia, Pa., Confectionery.
John T. Lewis and Bros., Philadelphia, Pa., Paints, Oils and Acids.
Lockwood, Brooks and Co., Boston, Mass., Inks and Mucilage.
John Lucas and Co., Philadelphia, Pa., Colors, Paints.
Henry Maillard, New York, N. Y., Confectionery.
Malcolm and Stevenson, Philadelphia, Pa., Flavoring Extracts.
Marx and Rawolls, New York, N. Y., Glycerines, Shellac, Lacquer, etc.
L. Martin and Co., Philadelphia, Pa., Lamp Black.
Jas. S. Mason and Co., Philadelphia, Pa., Blacking.
Geo. Mathers and Sons, New York, N. Y., Printing Inks.
Maynard and Noyes, Boston, Mass., Inks.
McKeone, VanHaagen and Co., Philadelphia, Pa., Soaps.
Meade Co., Salt Works, Bradenburg, Ky., Salt.
Thos. Mills and Bros., Philadelphia, Pa., Confectioners' Machine Tools.
G. W. Middleton and Co., Philadelphia, Pa., Alcohol.
Frank Miller, Son and Co., New York, N. Y., Harness Oil, Blacking, etc.
Geo. Miller and Sons, Philadelphia, Pa., Confectionery.
J. and J. Miller and Co., Boston, Mass., Extract of Hemlock Bark.
Enoch Morgan and Son, New York, N. Y., Sapolio Soap.
Arthur B. Morrison, Portland, Me., Gold and Silver Solutions.
G. Byron Morse, Philadelphia, Pa., Confectionery.
Chas. Moser and Co., Cincinnati, O., Colors and Lakes.
Geo. A. Moss, New York, N. Y., Dressing for Ladies' Shoes.
C. Norwood and Son, Boston, Mass., Isinglass.
Wm. F. Nye, New Bedford, Mass., Lubricating Oils.
Ohio River Salt Co., Pomeroy, O., Salt.
Dudley L. Page, Philadelphia, Pa., Confectionery.
Charles Pfizer and Co., New York, N. Y., Chemicals.
Phillips and Jacobs, Philadelphia, Pa., Fine Silver and Gold.
John Raynald, Philadelphia, Pa., Ink.
Restdorff, Bettmann and Co., New York, N. Y., Dressings for Ladies' Shoes.
J. J. Richardson and Co., Philadelphia, Pa., Bonbons, etc., of Sugar.
Robinson and Pratt, Philadelphia, Pa., Printing Inks, etc.
D. Rosenberg and Sons, New York, N. Y., Varnishes.
Rosengarten and Sons, Philadelphia, Pa., Chemicals.

Rumford Chemical Works, Providence, R. I., Animal Charcoal, Manure, and Soap.
W. H. Savoumin, Toilet Powders.
Schall and Co., New York, N. Y., Confectionery.
Seeley and Stevens, New York, N. Y., Pellucidite.
John M. Sharpless and Co., Philadelphia, Pa., Extracts of Logwood.
Wm. F. Simes and Sons, Philadelphia, Pa., Sublimed and Compressed Camphor.
Stein, Hirsch and Co., Chicago, Ill., Egg and Blood Albumen, etc.
Henry Tetlow and Bro., Philadelphia, Pa., Fine Toilet Preparations, Soaps, Perfumeries, etc.
Thomas Extract Co., Elmira, N. Y., Extract of Hemlock Bark.
I. S. Thompson, New York, N. Y., and Erie, Pa., Non-Erasable Inks, and others.
A. M. Todd, Nottawa, Mich., Oil of Peppermint.
John W. Tulley, Philadelphia, Pa., Fillers for Iron and Wood.
John Underwood, New Durham, N. J., Inks, etc.
Warden and Oxnard, Pittsburgh, Pa., Refined Petroleum.
Lyman S. and Cyrus Judd, South Stafford, Vt., Sugar.
Wenck and Co., New York, N. Y., Perfumery and Toilet Preparations.
Wetherell and Bro., Philadelphia, Pa., Lead Colors.
Walter G. I. Wheeler, New York, N. Y.
Charles T. White and Co., New York, N. Y., Chemicals and Pharmaceutical Preparations.
Stephen F. Whitman and Son, Philadelphia, Pa., Confectionery.
Wiltbank and Scattergood, Philadelphia, Pa., Confectionery.
Wolf Brothers and Keech, Centreville, Mich., Essential Oils.
C. B. Woodworth and Son, Rochester, N. Y., Perfumes in general.
R. and G. A. Wright, Philadelphia, Pa., Toilet Soaps, Pomades, etc.
Young, Ladd and Coffin, (Lundberg) New York, N. Y., Perfume, Extracts, etc.
Zindgraf and Hohenadel, Philadelphia, Pa., Paint Mill and Mixer combined.
William Zinsser and Co., New York, N. Y., Shellac, Varnishes, Lacquers, Sealing Wax, etc.
Zucker and Levett, New York, N. Y., Polishing Materials.
George Zucker (Frasse and Co., Agt's), New York, N. Y., Rouges and Compositions.
H. W. and R. Lafferty, Gloucester, N. J., Centrifugal Machine for Draining Sugar.
L. L. Crocker, Buffalo, N. Y., Superphosphates, Fertilizers.
American Ultramarine Works, New York, Colors.
Baugh and Sons, Philadelphia, Chemical Fertilizer, and Raw Material for the same.
Bower, Henry, Philadelphia, Chemicals.
Dobbins, Philadelphia, Electric Soap.
Dreyfuss and Co., New York, Chemicals.
Gray, Daniel, New York, Refined Sulphur.
Harrison Bros., and Co., Philadelphia, Chemicals.
Lister Bros., Newark, N. J., Superphosphates, Bones Entire and Crushed.
Walton, Whann and Co., Wilmington, Del., Fish Guano, Bone Meal, Superphosphates, etc.
Philadelphia Quartz Co., Philadelphia, Silicates.
Pacific Guano Co., Boston, Artificial Fertilizers, and the Raw Material used in manufacturing.
Hambleton and Son, Boston, Perfumes, Pomades, Cosmetics, Eau de Cologne.

Navassa Phosphate Co., New York, Guano Prime d'Ammoniaque et Derivées.
R. H. Zennig and Co., New York, Matches.
W. H. Read, Baltimore, Eau de Cologne.
Powers and Weightman, Philadelphia, Chemicals.
H. T. Baker and Bros., New York, Borax and Saltpetre.
Ch. Lennig, (Tacony Chemical Works), Philadelphia, Chemicals.
Charles V. Mayer, New York, Superphosphate, and Rectified Peruvian Guano.
T. W. Masury and Son, New York, Colors.

GROUP IV.

ANIMAL AND VEGETABLE PRODUCTS—MACHINERY.

American Condensed Milk Co., New York, N. Y. Condensed Milk.
Jno. Sail Borden, New York, N. Y., Condensed Milk (Eagle Brand).
Andrew Erbenbrecker, Cincinnati, Ohio, Starch.
T. Kingsford and Son, Oswego, N. Y., Starch.
George Fox, Starch.
Wm. Barnett, Philadelphia, Pa., Starch.
Glen Cove Starch Co., Glen Cove, Long Island, N. Y., Starch.
J. J. Wood and Co., Columbus, Ohio, Starch.
Lagomarsino and Cuneo, Philadelphia, Pa., Macaroni, Vermicelli, and Fancy Pastes.
Lagomarsino and Cuneo, Philadelphia, Pa., Farina.
Cascar and Co., Baltimore, Md., Lard Oil.
P. T. George and Co., Baltimore, Md., Lard Oil.
W. J. Wilcox and Co., New York, N. Y., Stearine and Lard Oil.
Baeder, Adamson and Co., Philadelphia, Pa., Glue.
George C. Naphey and Sons, Philadelphia, Pa., Refined Lard.
V. W. McFarlane, New York, N. Y., Refined Lard.
W. J. Wilcox and Co., New York, N. Y., Refined Lard.
George Upton, Boston, Mass., Glue.
P. T. George and Co., Baltimore, Md., Refined Lard.
Pratt, Read and Co., Deep River, Conn., Native Ivory, and Articles manufactured from Ivory.
United States Egg Desiccating Co., St. Louis, Mo., Crystallized Eggs.
Bene, Crighton and Co., New York, N. Y., Manufactures from Ostrich Feathers.
S. Liebmann's Sons, Williamsburg, Brooklyn, N. Y., Malt.
Thomas Palin, Williamsburg, Brooklyn, N. Y., Malt.
Theodor Bergner, Philadelphia, Pa., Malt.
Charles W. Pandel, Oswego, N. Y., Malt.
Charles Pope, Chicago, Ill., Malt.
A. M. Marsh, Buffalo, N. Y., Malt.
H. Wulstein, New York, N. Y., Tobacco Granulating Machines.
John Annear and Co., Philadelphia, Pa., Pennsylvania Sauce.
E. T. Cowdrey and Co., Boston, Mass., Mixed Pickles, Gerkins, Catsups.
Squire Dingee, Chicago, Ill., Pickles and Sauces.
Duvivier and Co., New York, N. Y., Assorted Pickles.
W. Underwood and Co., Boston, Mass., Family Pickles, and Walnut Catsup.

A. A. Smyth, Philadelphia, Pa., Table Sauce.
Skilton, Foote and Co., Boston, Mass., Bunker Hill Pickles.
Stephen H. Prevost, New York, N. Y., Sauces.
C. B. Rogers, Philadelphia, Pa., Rye.
Beckhow Preserving Co., Paterson, N. J., Salad Cream, Tomato Catsup, Chow-Chow, and Pickles.
W. O. Bush, Olympia, Washington Ter., Cereals.
C. P. Brookhardt, Linn Co., Oregon, Grains.
D. D. Prettyman, Oregon, Wheat.
H. Chisolm, Charleston, S. C., Rice.
C. A. Jackson and Co., Petersburg, Va., Plug Tobacco.
P. Lorillard and Co., New York, N. Y., Tobacco in all its forms (except Cigars).
Marburg Bros., Baltimore, Md., Granulated Smoking Tobacco.
Edward Holbrook, Louisville, Ky., Plug Tobacco.
Salamon, Hancock and Co., Richmond, Va., Plug Tobacco.
Harry C. Holbrook, Louisville, Ky., Plug Tobacco.
P. H. Mayo and Bro., Richmond, Va., Dark Navy Plug Tobacco.
Frishmuth Bro. and Co., Philadelphia, Pa., Fine-Cut Chewing and Smoking Tobacco.
G. W. Gail and Ax, Baltimore, Md., Smoking Tobacco and Chewing.
F. W. Felguer and Son, Baltimore, Md., Granulated and Straight-Cut Tobacco.
W. T. Blackwell, Durham, N. C., Granulated Smoking Tobacco.
John F. Allen and Co., Richmond, Va., Chewing and Smoking Tobacco and Cigarettes.
L. J. Grant and Co., Richmond, Va., Dark Navy and Cavendish Tobacco.
Thomas G. Williams and Co., Richmond, Va., Plug Tobacco.
Wm. S. Kimball and Co., Rochester, N. Y., Fine-Cut Chewing, Granulated, Smoking, and Cigarettes.
Seidenberg and Co., Key West, Fla., Cigars.
McFall and Lawson, Key West, Fla., Cigars.
Sanchez, Haya and Co., New York, N. Y., Cigars.
Edmund Bourgeois, New Orleans, La., Periqui Tobacco and Cigarettes.
Lowell and Buffington, Covington, Ky., Fine-Cut Tobacco.
W. H. Trowbridge, Danville, Va., Granulated Smoking Tobacco.
Lorver, Coot and Co., Philadelphia, Pa., Rehandled Leaf Tobacco.
Consolidated Tobacco Company of California, San Francisco, Cal., Cigars, and Cut Smoking and Granulated Tobacco.
George Alcis, New Orleans, La., Cigars.
T. J. Dunn and Co., Philadelphia, Pa., Cigars.
Gumpert Bros., Philadelphia, Pa., Cigars.
S. Jacoby and Co., New York, N. Y., Cigars.
F. N. Kinney, New York, N. Y., Straight-Cut Smoking Tobacco, and Cigarettes.
Krebs and Speiss, New York, N. Y., Cigars.
Turpin and Bros., Richmond, Va., Plug Tobacco.
L. L. Armistead, Lynchburg, Va., Granulated Smoking Tobacco.
L. M. Baily, Richmond, Va., Sweet Plug Tobacco.
Lawrence Lottier, Richmond, Va., Plug Tobacco.
John W. Carrolls, Lynchburg, Va., Granulated Smoking Tobacco.
D. H. Hull, Syracuse, N. Y., a Tobacco-Stemming Machine.
P. O. Cain and Co., Philadelphia, Pa., Cigar Moulds.
Francis S. Kinney, New York, N. Y., a Machine for Cutting Tobacco.
C. J. Fell and Bros., Philadelphia, Pa., Spices.
Weikel and Smith, Philadelphia, Pa., Spices.

Stephen F. Whitman and Son, Philadelphia, Pa., Chocolate.
H. Kunkel and Co., New York, N. Y., Chocolate.
D. W. Grast, Washington, D. C., Machine for Slicing Dried Beef.
Kenyon Bros., Raritan, N. J., Six Meat Choppers—one Power, one Exchangeable, and four Hand.
David Landreth and Sons, Philadelphia, Pa., Grains, Cereals, etc.
Peyton King, Lafayette Co., Miss., Corn.
Miss A. D. Etta Bloodgood, New York, N. Y., Imperial Sheet Wax.
James Morrison and Co., Cincinnati, O., Canvased Hams.
L. Schepp, New York, N. Y., Desiccated Cocoanut, Preserved Fruit.
Thomas Richie and Co., Jacksonville, Fla., Jelly and Marmalade of Florida Oranges.
E. C. Hazard and Co., New York, N. Y., Preserved Vegetables.
Wm. Underwood and Co., Boston, Mass., Preserved Vegetables.
Githens and Rexamer, Philadelphia, Pa., Preserved Vegetables.
Anderson and Campbell, Camden, N. J., Preserved Vegetables.
L. McMurray and Co., Baltimore, Md., Mountain Sugar Corn.
William King, Brooklyn, N. Y., King's Sauce, Royal and Table Sauce.
J. Winslow Jones, Portland, Me., Preserved Green Corn.
W. H. Slocomb and Bros., Philadelphia, Pa., Preserved Tomatoes.
Warner, Rhodes and Co., Philadelphia, Pa., Preserved Vegetables.
Kemp, Day and Co., New York, N. Y., Preserved Vegetables.
Portland Packing Co., Portland, Me., Sweet Corn Preserved.
Farmers' Fruit-Preserving Co., Lebanon, Del., Pumpkin and Tomatoes.
Alexander Hornby, Craigsville, Orange Co., N. Y., Steam-Cooked and Crushed Oats and Wheat.
George V. Hecker, New York, N. Y., Self-Raising Flour, Buckwheat Flour, and Farina.
A. A. Taylor, Loudonville, O., Flour from Winter Wheat.
George V. Hecker and Co., New York, N. Y., Flour from Winter Wheat.
Oregon City Mills, Oregon City, Oregon, Flour from Winter Wheat.
Jesse Ames and Sons, Northfield, Minn., Flour from Spring Wheat, Patent Process.
Eisenmeyer and Co., St. Louis, Mo., Flour from Winter Wheat.
Deener, Cissel and Welch, Georgetown, D. C., Flour from Winter Wheat.
C. A. Pillsburg and Co., Minneapolis, Minn., Flour from Spring Wheat, Patent Process.
C. A. Pillsburg and Co., Minneapolis, Minn., Flour.
J. A. Christian and Co., Minneapolis, Minn., Flour from Hard Spring Wheat, Patent Process.
Red Wing Flour Mills, Red Wing, Minn., Flour from Spring Wheat, Patent Process.
Red Wing Flour Mills, Red Wing, Minn., Flour from Spring Wheat, Hard Variety.
Red Wing Flour Mills, Red Wing, Minn., Flour from Spring Wheat, Patent Process.
Weld and Hill, Medina, N. Y., Flour.
James Pollock's Mills, Vincennes, Ind., Flour from Winter Wheat.
Wm. P. Evans, Paoli, Pa., Flour from Winter Wheat.
Homer Baldwin, Youngstown, O., Flour from Winter Wheat.
T. Schumacker, Akron, O., Flour from Winter Wheat.
Geo. C. Thilenius, Cape Girardeau, Mo., Flour from Winter Wheat.
C. J. Fell and Bro., Philadelphia, Pa., Self-Raising Flour.
Porter and Mowbray, Winona, Minn., Flour from Spring Wheat.
Porter and Mowbray, Winona, Minn., Flour from Hard Spring Wheat.
McLearan Bros., Portland, Oregon, Oatmeal.

P. A. Gambrill and Co., Baltimore, Md., Flour from Winter Wheat.
W. P. Ankeny and Bro., Minneapolis, Minn., Flour from Spring Wheat, Patent Process.
Rankin Manufacturing Co., Pittsburgh, Pa., Three Meat Choppers, Power and Hand Sizes.
Boomer and Boschart, Syracuse, N. Y., One Power Cider Press, One Hand Cider Press, One Wine Press.
August Mittinger, Jr., Philadelphia, Pa., A Collection of Butchers' Tools, Meat Choppers, etc.
Bailey Wringing Co., New York, N. Y., Seven Sizes of Hand-Working Meat and Vegetable Choppers.
Murray Iron Works, Burlington, Iowa, One Power and Two Hand Meat Cutters.
E. V. Machette, Philadelphia, Pa., Self-Raising Flour.
Rumford Chemical Works, Providence, R. I., Baking Powder.
Thurston, Hall and Co., Cambridgeport, Mass., Cakes and Crackers.
John Hartman, Philadelphia, Pa., Bread for Marine and Army Use.
David Carrick and Co., Philadelphia, Pa., Biscuits, Cakes, and Crackers for Family Use.
Adam Exton and Co., Trenton, N. J., Water, Butter and Oyster Crackers.
E. J. Larrabee and Co., Albany, N. Y., Staple and Fancy Biscuits and Crackers.
Snider, Bro. and Co., Cincinnati, O., Cream Crackers.
Walter G. Wilson and Co., Philadelphia, Pa., Plain and Fancy Crackers, Cakes and Biscuits.
Warner, Rhodes and Co., N. J. Packing Co., Philadelphia, Preserved Extracts.
John G. Borden, Brewster's, N. Y., Preserved Extracts.
Kemp, Day and Co., New York, N. Y., Preserved Extracts.
Portland Packing Co., Portland, Me., Preserved Extracts.
E. C. Hazard and Co., New York, N. Y., Preserved Extracts.
Lewis Hurd, Kewanee, Ill., Preserved Extracts.
Gordon and Dilworth, New York, N. Y., Preserved Extracts.
E. T. Condrey and Co., Boston, Mass., Preserved Extracts.
Chas. Green, Sons and Co. (W. A. Laurence, Exhibitor), Waterville, N. Y., Preserved Extracts.
W. K. Lewis and Bros., Boston, Mass., Preserved Extracts.
Burnham and Morrill, Portland, Me., Vegetable and Animal Extracts.
Black and Krebs, Baltimore, Md., Bacon, Hams.
P. T. George and Co., Baltimore, Md., Canvased Hams.
George Cassard, Baltimore, Md., Hams.
Wilson Packing Co., Chicago, Ill., Pressed, Canned Beef, Ham and Tongue.
Richardson and Robbins, Dover, Del., Ham Canned in Jelly.
Joshua Wright, Philadelphia, Pa., Mince Meat.
J. Winslow Jones, Portland, Me., Canned Roast Beef.
W. K. Lewis and Bros., Boston, Mass., Canned Beef and Turkey.
Atmore and Son, Philadelphia, Pa., Minced Meat.
Burnham and Morrill, Portland, Me., Canned Meats, Roast Beef, Mutton, Veal and Fowl.
Evans, Lipincot and Cunningham, Cincinnati, O., Canvased Hams.
E. Davis, Jr., Cincinnati, O., Hams of Cured Pork.
Charles Jacobs, Cincinnati, O., Sugar-cured Hams.
Burnham and Morrill, Portland, Me., Preserved Fruits.
Richardson and Robbins, Dover, Del., Preserved Fruits.
Githens and Rexamer, Philadelphia, Pa., Preserved Fruits.
Jas. W. Chambers, Dover, Del., Preserved Fruits.
F. H. Perry, Providence, R. I., Preserved Fruits.

Warner, Rhodes and Co., Philadelphia, Pa., Preserved Fruits.
Lunt Brothers, New York, N. Y., Avena or Oat Grits.
F. M. Clarkson and Sons, Bridgeville, Del., Preserved Fruits.
R. B. Blower, Woodland, Cal., Dried Fruits.
P. J. Ritter, Philadelphia, Pa., Preserved Fruits.
C. H. Smithers, New York, N. Y., Wax.
Theodor Leonhard, Paterson, N. J., Wax.
Josef Fritsch, Carlstadt, N. J., Wax.
F. S. Harbison, San Diego, Cal., Honey.
John G. Ellsworth, Barre, Mass., Butter.
William Stowe, Whitewater, Wis., Cheese.
Gaff Fleischmann, New York and Cincinnati, Compressed Yeast.
George Boyd, Philadelphia, Pa., Aroma Coffee Roaster.
George Boyd, Philadelphia, Pa., Aroma Coffee Cooler.
Ralph and Co., Philadelphia, Pa., Scotch Snuff.
G. W. Gail and Ax, Baltimore, Md., Snuff.
P. Lorillard and Co., New York City, Snuff.
Xavier Wertz, New York City, Confectionery.
Jewell Bros., Brooklyn, N. Y., Infant Food.
Fred. Serauw, Edwardsville, N. Y., Cheese.
Calvin Shafer, New York, N. Y., Raspberry Syrup.

GROUP V.

FISH AND FISH PRODUCTS—APPARATUS OF FISHING.

Mrs. J. H. Slack, Bloomsburg, N. J., Combination Hatching Boxes.
C. F. Orvis and Co., Manchester, Vt., the Orvis Reel, with or without Click.
John Krider, Philadelphia, Pa., Split Bamboo Rods.
C. Fox, Philadelphia, Pa., Trout Fly Rod.
G. H. Mansfield and Co., Canton, Mass., Assortment of Brended Lines.
Sarah J. McBride, Mumford, N. Y., Assortment of Flies.
Chs. E. Wheeler, Farmington, Me., Split Bamboo Rods.
—— Hooper, Baltimore, Md., Nets of various kinds.
Chs. Belbin, Maryland, Model of Oyster Pungy, with Model of Oyster Dredge.
A. B. Shipley and Sons, Philadelphia, Pa., Artificial Flies, Rods, Reels, etc.
Conroy, Bassett and Malleson, New York, N. Y., Artificial Flies, Bass Lines, Fine Rods, etc.
American Net and Twine Co., Boston and New York, Nets, (Trammel Nets, Gill Nets, Purse Nets), and Lines.
Wm. Hume, Eagle Cliff, Washington Ter., Canned Salmon.
W. R. Lewis and Bros., Boston, Mass., Canned Salmon, Mackerel, Lobster, and Clams.
S. L. Goodale, Saco, Me., Extract of Fish.
Max Ams, New York, Pickled Eels, Caviar, Pickled Salmon, Anchovies, etc.
McMurrey and Co., Baltimore, Md., Lunch Oysters and Canned Oysters.
John L. Shriver and Bro., Baltimore, Md., Pickled Oysters in glass bottles.
Norwood and Sons, Ipswich, Mass., Isinglass.
Waller C. Wheeler, New York, N. Y., Isinglass.
Gloucester Isinglass Co., Gloucester, N. Y., Isinglass and Fish Glue, made from the Skins.
Howe and French, Boston, Mass., Ripley American Isinglass.

Gustave Mueller, Chicago, Ill., Isinglass (two kinds, common and prepared).
J. W. Carley, New York, N. Y., Preserved Oysters, specimens of Oysters and Clams.
Eugene G. Blackford, New York, N. Y., Live Fish in Aquaria, with Fish in Refrigerators.
Wm. T. Wroten, Baltimore, Md., Models of Oyster Boats.
Mrs. C. E. Mott, Jacksonville, Florida, Shell Work.
A. Booth and Co., Oregon, Preserved Salmon.
Charles Durg, Cincinnati, O., Specimens of Lake Fish.
John H. Klippart, Columbus, O., Live Fish.
Wm. Underwood, Boston, Mass., Canned Lobster, Mackerel, Clams and Fresh Cod.
J. W. and V. Crook, Clifton, Columbia River, Oregon, Salmon in Pickle and in Cans.
Burnham and Morrill, Portland, Me., Canned Mackerel, Lobsters and Clams.
Adolph Allman, San Francisco, Cal., Caviar prepared from Cod Roe.
Kemp, Day and Co., New York, N. Y., Canned Lobsters, Mackerel, Salmon, etc.
Portland Packing Co., Portland, Me., Canned Mackerel and Canned Lobster.
John Winslow Jones, Portland, Me., Fresh Mackerel and Canned Lobster.
Joseph F. Tobin, New York, N. Y., Whale Bone.
Hapgood and Co., San Francisco, Cal., Canned Salmon.
Gloucester Fishing Exhibit, Gloucester, Mass., General Collection of Fishing Implements, Models of Boats.
Massachusetts Marine Exhibition, Boats for Fishermen and Fishing Vessels.
Maryland Centennial Commission, Maryland, Fish Hatching House, Models of Boats, etc., etc.
C. C. Brand, Norwich, Conn., Whaling Gun with Bomb Projectile.
E. B. and T. Macy, New Bedford, Mass., Whaling Gear.
Wilcox, Crittenden and Co., Middletown, Conn., Fishing-boat Fittings, etc.
Bradford and Anthony, Boston, Mass., Anglers' Implements, Hooks, etc.
A. Voss, Gloucester, Mass., Bait Mill.
Kelsey and Hosmer, Sandusky, O., Fishing Dressing Machine.
White Manufacturing Co., Bridgeport, Conn., Fishing Lamps.
Jonathan Buck, Gloucester, Mass., Fisherman's Clothing.
J. F. Carter, Gloucester, Mass., Fisherman's Oil Clothing.
Thaddeus Norris, Philadelphia, Pa., Fishing Rods.
J. L. Graves, Springfield, Mass., Fishing Rods (hollow).
H. L. Leonard, Bangor, Me., Fishing Rods.
J. G. Brewer, Muncy, Pa., Fish Ways.
Johnson and Young, Boston, Mass., Lobster Factory.
C. J. Atkins, Buckport, Me., Fish Ways.
Prof. Alexander Agassiz, Cambridge, Water-Color Sketches of Fishes.
Paulis Roeter, Cambridge, Water-Color Sketches of North American Fishes.
Alden Sea Food Co., New York, Dried Turtle, Dried Cod, Dried Clams.
Max Ams, New York, Preserved Fish, Pickled Eels, Russian Sardines.
Eagle Preserving Co., New York Preserved Fish, Russian Sardines, etc.
Myler and Jewell, Columbia River, Oregon, Canned Salmon.
American Boneless Sardine Co., New York, American Boneless Sardines, etc.
Oregon Pickling Co., Portland, Oregon, Preserved Fish, Salmon.
A. B. De Frece, New York, Mother-of-Pearl.
D. H. Shaffer, Cincinnati, Ohio, Mother-of-Pearl from the American Unio.
Dr. C. A. Miller, Cincinnati, Ohio, Mother-of-Pearls (Unies).
F. C. Kierfgaard, Philadelphia, Pa., Fish-Scale Jewelry.
Haven, Williams and Co., New London, Conn., Fish Oil.
E. E. Small, Provincetown, Mass., Fish Oil.
N. E. Atwood, Provincetown, Mass., Fish Oil.

E. F. Gilbert, Jacksonville, Fla., Alligator Ivory.
American Whip Co., Westfield, Mass., Whalebone.
Cape Ann Isinglass Co., Rockport, Mass., Isinglass.
Captain Caleb Cook, Provincetown, Mass., Fish Oils.
Gloucester Isinglass Co., Gloucester, Mass., Isinglass.
Marvin Bros. and Bartlett, Portsmouth, N. H., Cod Liver Oil.
John Rutsel Cutlery Co., Turner's Falls, Mass., Fishing Knives.
S. Elwell, Jr., Gloucester, Mass., Fishing Knives.
S. P. Hedges, Greenport, New York, Fish Spear.
W. D. Chapman, Thraesa, N. Y., Trolling Spoons.
J. T. Buell, Whitehall, N. Y., Trolling Spoons.
W. H. Young, Philadelphia, Pa., Trolling Spoons.
J. and S. Allen, Walpole, Mass., Fishing Lines.
J. W. Dresser, Casline, Me., Fishing Lines.
Alexander McCurdy, Gloucester, Mass., Fisherman's Knives.
W. W. Smith, Provincetown, Mass., Fishing-boat Fittings.

GROUP VI.

TIMBER, WORKED LUMBER, PARTS OF BUILDINGS.

Cross and Mehling, Grand Rapids, Mich., Artificial Veneers.
Peter Henderson and Co., New York, N. Y., Field and Garden Seeds.
Robert Buist, Philadelphia, Pa., Garden Seeds.
Miller, Sievers and Co., San Francisco, Cal., Cones of California Coniferæ.
Western North Carolina Land Co., Charlotte, N. C., Commercial Woods.
James M. Thorburn and Co., New York, N. Y., Garden Seeds and Tree Seeds.
Austin G. Day, Seymour, Conn., Rubber-producing Plants.
Smythe, Earl and Co., New York, N. Y., Crude Rubber Trees and Apparatus.
Davis, Wise and Co., Poplar Street Wharf, Philada., North Carolina Shingles.
Oregon Furniture Manufacturing Co., Portland, Oregon, Burlach Maple and Shittim Wood.
Thomas Meehan, Germantown, Philada., Pa., Seeds of American Trees and Shrubs.
Geo. J. Burkhardt and Co., Philadelphia, Pa., Cedar Vats, Tanks, and Dye Tubs.
Anchor Manufacturing Co., 326 South Delaware Avenue, Philada., Pa., Barrels, and Materials for Making Barrels.
C. B. Evans and Co., Cincinnati, O., Cast Iron Marbleized Mantels.
Wilson and Miller, 1211 and 1213 Spring Garden Street, Philada., Pa., Plain Marbleized Slate Work.
A. L. Franchese and Co., 1281 and 1283 Broadway, New York, Marble Mantels.
Fisher and Bird, 97 to 103 East Houston Street, New York, Marble Mantels.
The Williams Marble and Slate Manufacturing Co., 1134 Market Street, Philadelphia, Pa., Marbleized Slate Mantels.
Woods, Perry and Co., Cleveland, O., White Pine Lumber.
Eastern Burnettizing Co., Boston, Mass., Samples of Burnettized Timber.
J. C. Arthur, Charles City, Iowa, Herbarium of Plants of Iowa.

Chas. W. Spun, Boston, Mass., Paperwood Hangings.
Hubert Bonyans, New Orleans, La., Pecans (Nuts of Carya Oliviformis).
A. L. Butz, Philadelphia, Pa., Corks.
National Wood Manufacturing Co., 954 Broadway, New York, Wood Carpet for Floors.
J. E. Patterson and Co., Pittston, Pa., Doors, Sash, Blinds, and Newels.
Clark and Co., 162 and 164 West Twenty-Seventh Street, New York, Steel Shutters.
James G. Wilson, Jersey City, N. J., Coiling Wooden Blinds.
Wm. B. Burk and Co., Philadelphia, Pa., Corks.
Illinois Industrial University, Champaign, Ill., Woods of Illinois.

GROUP VII.

FURNITURE, UPHOLSTERY, WOODEN WARE.

Samson Lewy, New York, Glove Safe.
Kaisor and Herzog, Philadelphia, Parlor Decoration.
Charles W. O'Hara, Philadelphia, Hygienic Chair.
Carrington, De Zouche and Co., Philadelphia, Interior Decorations.
Charles Zinn and Co., New York, Basket and Willow Ware.
The Wooton Desk Co., Indianapolis, Ind., Cabinet Office Secretary.
Giuseppe Ferrari, New York, Furniture.
Seidlers and May, Hartford, Conn., Sofa Bed.
Daniel Probst, Philadelphia, Furniture, a large Walnut Sideboard.
A. Cutler and Son, Buffalo, N. Y., Card Table.
A. J. Goodwin, Brookline, Mass., Bedstead arranged for Sick-Room.
George Knell and Son, Philadelphia, Parlor Sofa Bed and other Furniture.
Meriden Curtain Fixture Co., Meriden, Conn., Curtain Fixture.
United States Spring Bed Co., Springfield, Mass., Spring Bed.
E. Lord and Co., Quincy, Ill., Metallic Spring Bed Bottom.
The Henry J. Seymour Chair Co., Troy, N. Y., Chairs.
C. Close and Co., St. Louis, Mo., Silver-Plated Show Case.
Lash and Co., Philadelphia, Washing Machine.
Felix Reifschneider, New York, Fine Velvet Frame, also Velvet and Morocco Case.
Alois Hummel, Baltimore, Md., Gothic Clock Case.
Lange and Bro., St. Louis, Mo., Show Case.
Schert and Brother, Brooklyn, N. Y., Picture Frames.
F. C. D. McKay, Paterson, N. J., Shade Rollers.
Miss Mary Story, Cambridge, Mass., Etching with Pen and Ink.
Marion Blind Co., Brady, Pa., Inside Slab Window Blinds.
Herzog and Co., San Francisco, Cal., Imitation of Horse Hair.
McMellon and Co., New York, Curled Hair.
The Delta Moss Co., New Orleans, La., Moss.
Allen and Bro., Philadelphia, Furniture and Parlor Doors.
Moore, York and Howell, Philadelphia, Walnut Parlor Suit, Centre Table, and Game Table.
Robert M. Wagan, Mount Lebanon, Chairs, etc.
Henry Pottin, Philadelphia, Parlor Billiard Table, etc.

Ferdinand Massett, Grand Rapids, Mich., Clock Pedestal.
Smith and Campion, Philadelphia, Four Complete Sets of Furniture, viz.: Parlor, Library, Dining-Room, and Bedroom.
Peter C. Doremus, New York, Sofa Spring-bed and Lounge.
James T. Allen and Co., New York, Lord's Patent Rocking Chair.
Charles W. Clark, Philadelphia, Window Shades and Window-shade Cloth.
Samuel P. Kittle, New York, Spiral Spring Mattresses.
James V. Schenck, New York, Crescent Spring Mattress.
J. E. McClees and Son, Philadelphia, Mantel Mirrors, etc.
Charles R. Yandell and Co., New York, Leather Lambrequins, etc.
J. B. M. Fifield, Philadelphia, Bed Sofas.
Delaware Chair Co., Delaware, O., Double Cane or Rattan Chairs.
Walter Heywood Chair Co., Fitchburg, Mass., Wood and Cane-seat Chairs.
Philander Derby, Gardner, Mass., Cane-seat Chairs.
Bradford and Co., Philadelphia, Sash Fastener.
B. Thole, St. Louis, Mo., Book Case.
L. H. Swaine and Co., Gardner, Mass., Cane-seat Chairs.
Berkley and Gay, Grand Rapids, Mich., Furniture.
Edwin W. Brady, Davenport, Iowa, Window Shades.
George A. Schastey, New York, Furniture.
Demorest, Joyce and Co., Brooklyn, N. Y., Opera Chairs.
Phœnix Furniture Co., Grand Rapids, Mich., Two Bed-room Suites.
Heywood Bros. and Co., Gardner, Mass., Chairs, Settees, etc.
Henry A. Turner, Boston, Mass., Stuffed Parlor Suites.
Nelson, Matter and Co., Grand Rapids, Mich., Bedstead and Dressing Case.
Richmond, Backus and Co., Detroit, Mich., Railroad Ticket Case.
Decker and Co., New York, Billiard Table.
W. M. Smith, West Meriden, Conn., Casket Trimmings.
Lucien Dubernet, New York, Picture Frames in Velvet and Metal.
Adolph Thiery, Philadelphia, Mantel and Pier Mirrors, Chairs, etc.
John G. Salter, Philadelphia, Mantel Mirrors, Bouquet Table, etc.
Paul Rath, New York, Drawing-room Decorations.
F. and H. Schroeder, Cincinnati, Ohio, Gothic Carved Oak Pulpit.
J. Chandler Roach, Philadelphia, Patent Bedstead.
George Ahrens, Crete P. O., Will Co., Ill., Ahrens' Patent Extension Table.
Matthew DeBock, South Boston, Mass., Cabinet and other articles of Furniture.
A. C. Lowe, Philadelphia, Looking Glasses, Bouquet Tables, etc.
Robert Ellis and Co., New York, Furniture and Font.
Walker Glass Importing, Silvering and Manufacturing Co., New York, Glass Interior Decorations.
Charles A. Pease, Boston, Mass., Patent Washstand.
Henry F. Hoover, Philadelphia, Magic Folding Lounge and Bed.
Palmer and Kendall (see Group VIII.), New York, Mosquito Net Canopies.
Eldridge J. Smith, Philadelphia, Bill Holder.
Thomas E. McDonald, New Brunswick, N. J., Clothes Wringer.
George C. Reukauff, Philadelphia, Mantelpiece, Mirrors and Picture Frames.
Lewis Postauka and Co., Cambridge, Mass., Piano Stool.
Homer J. Beaudet, Green Point, N. Y., Convertible Spring Cradle, etc.
A. Ledig and Son, Philadelphia, Octagonal Show Case.
Stewart Hartshorn, Newark, N. J., Automatic Curtain Rollers, etc.
Daniel M. Karcher's Sons, Philadelphia, Dining-Room Sideboard.
Wm. B. Smith, New York, Improved Counter Show Case.
Gardner and Co., New York, Seats for Chairs, Settees, and Railway Cars.
American Shade Roller Co., Boston, Mass., Shade Rollers, Window Shades, etc.

Jennings Brothers, New York, Pails, Basins, Bowls, Milk Pans, etc.
Jas. W. Cooper and Bro., Philadelphia, Brackets, Wall Pockets, Music Portfolios, Cabinets, etc.
New Haven Folding Chair Co., New Haven, Conn., Portable Folding Chairs.
Heiligman and Bros., Philadelphia, Carved Bureau Handles and Cabinet.
Hertz and Co., New York, a completely furnished Bedroom, comprising rich Maple, Mahogany, and Amaranth Bedstead, etc.
D. L. Ransom and Co., Buffalo, N. Y., Adjustable Desk and Business Cabinet.
O. C. White, Hopkinton, Mass., Adjustable Head Rest, Attached and Portable, for Chairs, etc.
K. L. Speth, New York, Fancy Cabinet Ware, etc.
John Griedling, Philadelphia, Barber Chair and Foot Rest combined.
National Wire Mattress Co., New Britain, Conn., Wire Mattress.
Julia Blanche French, Boston, Mass., Bedstead with Drawers.
Ephraim Cutler, Cambridge, Mass., Invalid Chairs.
Frank Rhoner, New York, Rocking Chair.
Theodore J. Palmer, New York, Reclining and Rocking Chair.
M. and H. Schrenkeisen, New York, Rocking Chair.
Phelps, Doremus and Corbett, New York, Patent Chair-Base Rubber Spring for Oscillating Chairs, etc.
Frederick Boland, Philadelphia, Looking Glass, Picture Frames, and Bouquet Tables, etc.
John S. Paine, Boston, Mass., Pulpits, Chairs, Fonts, Communion Tables, etc.
W. O. Taylor and Son, Bedford, O., Double Cane Seat Chairs and Rockers.
Alfred Dickinson, New York, Drop and Reversible Spring Roller Window Shade.
Calkins Champion Washer, Chicago, Ill., Washing Machines.
Colby Wringer Co., Waterbury, Vt., Clothes Wringer.
T. K. Dugdale, White Water, Ind., Clothes Wringer.
A. B. Barnard, West Fitchburg, Mass., Clothes Mangles.
J. W. Pratt, Philadelphia, Washing Machines.
T. E. Grove, Cleveland, O., Washing Machine.
York Manufacturing Co., York, Pa., Washing Machine.
Oakley and Keating, New York, Washing Machine.
Isaiah D. Buck, Bridesburg, Philadelphia, Pa., Washing Machine.
Lloyd Bros., Philadelphia, Ventilating Window Shade Fixtures.
Reuben Swedenborg Whittier, Hyde Park, Mass., Window Screen and Mosquito Bar.
Brunswick and Bro., Chicago, Ill., Billiard Table.
Asa E. Worden, Smyrna, Del., Washing Machine.
H. A. Briggs, Shaker Village, N. H., Washing Machine.
Cheney, Hopkinton, Mass., Washing Machine.
Robert O. Applegate, Camden, N. J., Ironing Table.
Blackemore and Sherman, Philadelphia, Plumbing.
A. W. Jennings, Bedford, O., Washing Machine.
Edward Jansen, New York, Straw, Willow, and Canes.
James Chase, Rochester, N. Y., Aquarium, Plant and Flower Stand.
Freeman and Smith, Racine, Wis., Aquarium and Flower Stands, etc.
Philip Klag, New York, Willow Work.
O'Brien Bros., Yonkers, N. Y., Rustic Work.
Edwin Linderback, Philadelphia, Improved Rustic Window Shades.
F. E. Colwell and Co., Chicago., Ill., Shade Fixtures.
The Hartford Woven Wire Mattress Co., Hartford, Conn., Woven Wire Mattresses, etc.
Edwin S. Johnson, Philadelphia, Window Shade Roller, etc.
William Campbell, New York, Spring Rollers for Window Shades.

Brown and Bliss, New York, Suite of Dining-Room Furniture, etc.
Martin Kohler, Philadelphia, Tailor's Chair.
Eckhardt and Mehler, Baltimore, Md., Gilt Frames.
Christine Glenson, Chicago, Ill., Table, Organ, and Bureau.
Salem Shade Roller Mfg. Co., Salem, Mass., Balance Spring Shade Roller, etc.
Miss Mary E. James, Cambridge, Mass., Etching on Chess Table with Pen and Ink.
George Wilson, Brooklyn, N. Y., Folding Bedstead and Recumbent Chair.
Maires and Reed, New York, Adjustable Iron Chair Frame.
George C. Newman, Philadelphia, Lacquer Moulding for Picture Frames
Adjustable Folding Chair Co., Philadelphia, Adjustable Folding Chairs.
Pope Bros. and Kügemann, Cincinnati, Ohio, Mouldings of Gilt and Walnut and other articles.
Mrs. Elizabeth Stiles, Philadelphia, Combination Desk.
James S. Earle and Son, Philadelphia, Window Frames, Window Cornice, etc.
Kimbel and Cabus, New York, Interior of a Room, Ceiling, Painting, etc.
Gottlieb Vollmer, Philadelphia, Chamber Furniture.
Reeves and Eastburn, Philadelphia, Adjustable Sleeping Apartment Sofa Bed.
E. W. Yutching and Son, New York, Oak Sideboard and Chair in Gothic Style.
Charles Buschore, Philadelphia, Show Cases.
Reed and Barton, Taunton, Mass., Casket Trimmings.
Lowene and Tucker, Newark, N. J., Fluting Machine.
Collender and Co., New York, Billiard Table.
M. Bensengers, Chicago, Ill., Billiard Table.
F. A. Gilbert, New Haven, Conn., Combination Table.
Ernest J. Knowlton, Ann Arbor, Mich., Bath Tub.
Fowler Fly Fan Co., Philadelphia, Fly Fan.
James C. Wilson, New York, Venetian Blinds and Shutters.
Miss Ellen B. Wolcott, Boston, Mass., Basket Ware made from Straw.
Leopold Hernberger, Philadelphia, Ironing and Starching.
Ferdinand Lapp, Detroit, Mich., Walnut Clock Case.
C. Rogers and Co., West Meriden, Conn., Casket Trimmings.
Henrietta H. Coles, 1343 F. Street, Washington, D. C., Fluting Machine.
Wakefield Rattan Co., Boston, Mass., Rattan Furniture.
Edward W. Vaill, Worcester, Mass., Folding Chairs.
Wringing Machine Co., 99 Chambers Street, N. Y., Wringing Machine.
Kilian and Bro., New York, Carved Brackets, Bedsteads, Tables, etc.
L. Marcotte, New York, Lot of Furniture.
Halm, Bellows and Butler, Columbus, O., Furniture.
Hale, Kilburn and Co., 48 and 50 North Sixth Street, Philadelphia, Pa., House Furniture.
Laban Moss and Sons, Athol, Mass., Folding Settee.
John W. Boughton, Philadelphia, Pa., Parquetry Flooring, etc.
Alfred H. Andrews and Co., Chicago, Ill., Inlaid Parquetry Flooring, etc.
Standard Laundry Manufacturing Co., 58 Long Wharf, Boston, Mass., Washing Machines.
Pottier and Stymus Manufacturing Co., New York, Furniture and Interior Decorations.
Phillips and Leyle, Jacksonville, Fla., Black Moss.
Francis H. Good, 700 Preston Street, Philadelphia, Pa., Steam Washing Boiler for Washing Clothing, etc.
M. A. Caldwell, North East, Erie Co., Pa., Washing Machine and Wringer Combined.

Hermann J. Goth, Bethlehem, Pa., Oil-painted Wall Paper and Decorations.
The American Stair Rod Co., New York, N. Y., 89 Thomas Street, Stair Rods and Fasteners.
Baeder, Adamson and Co., Philadelphia, Pa., Curled Hair.
School of Design of the University of Ohio, Cincinnati, O., Ornamental Carvings.
Schuyler, Armstrong and Co., Philadelphia, Pa., Burial Caskets, Robes, also Corpse Preservers.

GROUP VIII

COTTON, LINEN, AND OTHER FABRICS, ETC.

Sellers Manufacturing Co., Philadelphia, Pa., Wire Cloth for Paper Machines.
Clinton Wire Cloth Co., Clinton, Mass., Wire Fire-proof Lathing, Fencing Screens.
Asbestos Patent Fibre Co., Philadelphia, Pa., Chatham Mills, Asbestos Fibre and Fabric.
H. W. Johns, New York, N. Y., Asbestos Fibre and Fabric.
Woven Wire Mattress Co., Hartford, Conn., Wire Mattresses.
G. Dewitt Bros. and Co., Belleville, N. J., Ventilated Elastic Breast Pads, Fine Brass Wire Thread, Fine Wire Cloth.
Pennsylvania Wire Works, E. Darby and Son, Philadelphia, Pa., Wire Goods in Variety and Novelty.
Wakefield Rattan Co., Wakefield, Mass., Rattan Goods.
J. Wild and Co., Cocoanut Fibre Carpets.
Boston Manufacturing Co., Waltham, Mass., Cotton Fabrics.
Neptune Twine Mills, Twine and Cord,
Great Falls Manufacturing Co., Great Falls, N. H., Cotton Fabrics.
Lyman Mills, Holyoke, Mass., Cotton Fabrics.
Millville Manufacturing Co., Philadelphia, Pa., Special Cotton Fabric.
Elmwood Mills, Providence, R. I., Cotton Fabrics from James G. Smith.
Wamsutta Mills, New Bedford, Mass., Cotton Fabrics.
Lonsdale Co., Lonsdale, R. I., Colored Satteens, etc.
Mount Vernon Mills, Md., Cotton Duck and Twine.
Androscoggin Mills, Lewiston, Me., Cotton Fabrics.
Wortendyke Manufacturing Co., Wortendyke, N. J., Cotton Wicking.
Dwight Manufacturing Co., Chicopee, Mass., Cotton Fabrics.
S. Thornton and Sons, Philadelphia, Pa., Colored Cotton Goods.
Putnam Manufacturing Co., Providence, R. I., Colored Cotton Goods.
Chicopee Manufacturing Co., Chicopee, Mass., Cotton Fabrics.
Berkley Co., Providence, R. I., Cotton Fabrics.
Tremont and Suffolk Mills, Lowell, Mass., Cotton Fabrics.
Massachusetts Cotton Mill, Lowell, Mass., Cotton Fabrics.
Slater Cotton Co., R. I., Cotton Fabrics.
Manville Co., Providence, R. I., Fine Bleached Cotton Fabrics.
Continental Mills, Lewiston, Me., Cotton Fabrics.
Alabama and Georgia Manufacturing Co., West Point, Ga., Cotton Fabrics.
Lowell Bleachery, Lowell, Mass., Cotton Goods as Examples of Bleaching and Dyeing.
Crescent City Mills, Evansville, Ind., Cotton Fabric.
Druid Mills, Baltimore, Md., Cotton Sail Duck.

Booth Cotton Mills, Lowell, Mass., Cotton Fabric.
Barker Mills, Auburn, Me., Cotton Fabric.
Hill Mfg. Co., Lewiston, Me., Cotton Fabric.
C. B. and B. R. Knight, Cotton Fabric.
Saratoga Victory Manufacturing Co., Saratoga, N. Y., Black and Colored Silesias.
Conestoga Mills, Lancaster, Pa., Dyed Canton Flannels, etc.
Washington Mills, Lawrence, Mass., Colored Cambrics.
Social Manufacturing Co., Providence, R. I., Silesias.
Silver Springs Bleaching and Dyeing Co., Providence, R. I., Dyeing Cotton Fabrics.
Lewiston Mills, Lewiston, Me., Colored Duck, Cottonades, Tickings, etc.
Shetucket Manufacturing Co., Norwich, Conn., Shirting Stripes.
Shaffer and Stringfellow, Philadelphia, Pa., Knitting Cotton.
Union Wadding Co., Providence, R. I., Colored Cotton Wadding and Batting.
Wm. Wood and Co., Philadelphia, Pa., Cottonades and Cotton Cassimere.
Mississippi Mills, Wessen, Miss., Cottonades, Osnaburg Plaids.
Omega Manufacturing Co.—David Trainer and Sons—Tickings.
Cabot Manufacturing Co., Brunswick, Me., Cotton Fabrics.
Stark Mills, Manchester, N. H., Cotton Fabrics.
Poneemah Mills, Taftville, Conn., Cotton Fabrics.
Pocahontas Manufacturing Co., Putnam, Conn., Cotton Fabrics.
Naumkeag Steam Cotton Manufacturing Co., Salem, Mass., Cotton Fabric.
Darol Mills, Fall River, Mass., Cotton Fabric.
N. Y. Mills—Wolcott and Campbell—Whitestown, N. Y., Cotton Fabric.
Nashua Co., Nashua, N. H., Cotton Fabric.
Gayle and Co., Boston, Mass., Tents.
Sangdon Manufacturing Co., Manchester, N. H., Cotton.
Geo. W. Chipman and Co., Boston, Mass., Carpet Linings and Stair Pads.
Bates Manufacturing Co., Lewiston, Me., Cotton Fabrics.
Merrick Thread Co., Holyoke, Mass., Ready-Wound Bobbins of Cotton Thread.
Wauregan Mills, Wauregan, Conn., Cotton Fabrics,
Whitfield Manufacturing Co., Corinth, Miss., Cotton Yarns.
Monadnock Mills, Claremont, N. H., Cotton Fabrics.
Gloucester Gingham Mills, Gloucester City, N. J., Gingham Dress Goods.
Amoskeag Manufacturing Co., Manchester, N. H., Tickings, Denims, Domestic Ginghams, etc.
Falls Co., Norwich, Conn., Cotton Awnings and Tickings.
Lancaster Mills, Clinton, Mass., Fancy Ginghams.
Whittenton Manufacturing Co., Taunton, Mass., Cottonades, Dress Goods, etc.
York Manufacturing Co., Boston, Mass., Tickings, Nankeens, Denims, etc.
Everett Mills, Lawrence, Mass., Fancy Cottons, Cottonades, Cheviots, etc.
Renfrew Manufacturing Co., South Adams, Mass., Ginghams and Skirtings.
Bates Manufacturing Co., Lewiston, Me., Satteens, Ginghams, etc.
Jno. Farnum and Co., Conestoga Steam Mills, Lancaster, Pa., Ticking.
Millville Manufacturing Co., Philadelphia, Pa., Silesias Window Hollands, Umbrella Cloths.
Garsed Bros., Frankford, Pa., Tickings.
James Biddell, Son and Co., Wilmington, Del., Tickings.
Robert Adams, Paterson, N. J., Dyed Mosquito Nettings.
Palmer and Kendell, Middletown, Conn., Colored Mosquito Nettings and Canopies.
Pacific Mills, Lawrence, Mass., Printed Calicoes, Lawns, and Percales.
David S. Brown and Co., for the Gloucester Manufacturing Co. and Ancona Printing Co., Philadelphia, Pa., Printed Cotton Fabrics.

Wm. Simpson and Sons, Philadelphia, Pa., Printed Cotton Fabrics.
Albion Print Works, Conshohocken, Pa., Dyed and Printed Cotton Fabrics.
Pretty, Grimes and Co., Philadelphia, Pa., Printed and Dyed Cotton Fabrics.
S. H. Green and Son, River Point, R. I., Printed Cotton Fabrics.
Richmond Manufacturing Co., Providence, R. I., Printed Cotton Fabrics.
Hamilton Manufacturing Co., Lowell, Mass., Printed Calicoes.
Andress, Hartel and Co., Philadelphia, Pa., Printed Calicoes and Shirtings.
Manchester Mills, Manchester, N. H., Printed Calicoes.
American Print Works, Fall River, Mass., Printed Cotton Fabrics.
Hamilton Woollen Co., Southbridge, Mass., Printed Cotton Fabrics.
Merrimac Manufacturing Co., Lowell, Mass., Printed Cotton Fabrics.
Wood, Haslam and Co., Philadelphia, Pa., Dyed Cotton Yarns and Fabrics.
MacCrossan and Fair, New York, Cotton Handkerchiefs.
Hadley Co., Hadley Falls, Mass., Cotton Yarns and Twines.
Barbour Flax Spinning Co., Paterson, N. J., Flax Yarns and Threads.
American Linen Thread Co., Linen Thread and Yarn.
Stevens Linen Co., Webster, Mass., Bleached and Brown Linen Fabrics.
Nevins and Co., Boston, Mass., Heavy Bagging made from Jute.
Lawrence, Waterbury and Co., New York, N. Y., Jute Bagging.
Thomas Potter Sons and Co., Philadelphia, Pa., Oil Cloths.
American Linoleum Manufacturing Co., New York, N. Y., Linoleum Floor Cloths.
Hamilton Webbing Co., Wickford, R. I., Webbing for Boot and Shoe Straps.
Providence Machine Co., Providence, R. I., Stubbing Intermediate and Fine Cotton Roving Frame.
William Harrabin, Cohoes, N. Y., Anti-friction Top Rollers.
Lewiston Machine Co., Lewiston, Me., Thomas Power Looms and Warping Machines.
Eaton and Ayer, Nashua, N. H., Bobbins, Spools, Shuttles, and Skewers for Spinning and Weaving.
A. B. Prouty, Worcester, Mass., Card Setting Machine.
The Dutcher Temple Co., Updale, Mass., Power Loom Temples.
Saco Water Power Machine Co., Biddeford, Me., Mule Spinning, Drawing, and Roving Machine.
Geo. Draper and Son, Hopedale, Mass., Spinning Frame and Twister, Warper, Creel Spindle, etc.
Clark Thread Co., Newark, N. J., Self-acting Multispool Winding Machine.
Fales and Jenks, Pawtucket, R. I., Combined Fly Frame and Speeder.
Knowles and Brother, Worcester, Mass., Open Shed Fancy Looms for Cotton, Wool, and Silk.
David McFarland, Worcester, Mass., Card Setting Machine.
H. W. Butterworth and Son, Philadelphia, Pa., Drying Machines for Cotton Fabrics, etc.
Thomas Wood, Philadelphia, Pa., Power Looms and Winding Machines.
Richard Kitson, Lowell, Mass., Cotton Openers, and Lapper and Shoddy Picker.
George Crompton, Worcester, Mass., Plain and Fancy Power Looms for Cotton Goods.
Willimantic Linen Co., Hartford, Conn., Machines for Spinning Fine Yarns.
Hope and Co., Providence, R. I., Pentagraph Engraving Machine for Calico Printers.
Peter Lawson, Lowell, Mass., Improved Composition Drawing and Roving Can.
J. and W. Lyall and Son, New York, N. Y., Positive Motion Looms for Corsets, Canvas Seamless Bags, etc.

Palmer Patent Tentering and Drying Machine Co., Norwich, Conn., Stitching, Straightening, and Drying Textile Fabrics.
G. A. V. Smith, Manchester, N. H., Tubular Steel Speeder Flyers.
S. Morton Poole and Co., Wilmington, Del., Calender Rolls.
William Crabb, Newark, N. J., Hackles, Card Clothing, Wool Combs, etc.
John G. Avery, Worcester, Mass., Thread, Twine, and Cord Machinery.
Ben. Montgomery, Philadelphia (represented in Colorado), Pa., Raw Cotton, commercial bale.
William Taylor, Phillips Co., Ark., Raw Cotton, commercial bale.
Adam Kellogg, Madison Parish, La., Raw Cotton, commercial bale.
Claghorn, Herring and Co., Philadelphia, Pa., Raw Cotton in variety.
J. M. Seabrook, South Carolina, Sea Island Cotton (raw).
George Stratford, Jersey City, N. J., Oakum.
R. D. Wood and Sons, Millville, N. J., Calender for Cotton Goods.
William Gurney, Charleston, S. C., Sea Island Cotton.
Green and Daniels, Pawtucket, R. I., Sewing Cotton.

GROUP IX.

WOOL AND SILK FABRICS—MACHINERY.

M. A. Furbush and Sons, Philadelphia, Pa., Carding Machine.
James Butterworth and Son, Philadelphia, Pa., Machine.
James Smith and Co., Philadelphia, Pa., Machines.
Thames River Worsted Co., Norwich, Conn., Spinning Frame.[1]
Jesse Eddy's Sons, Fall River, Mass., Fancy Cassimeres.
Rodney Hunt Machine Co., Orange, Mass., Fulling Mill.
James Short, New Brunswick, N. J., Carpet Loom.
John and James Dobson, Philadelphia, Pa., Carpets, Blankets, Overcoatings.
George H. Gilbert Mfg. Co., Ware, Mass., Flannels, Blankets.
Manchester Mills, Manchester, N. H., Stuff Dress Goods.
Pickham Mfg. Co., Providence, R. I., Tweeds and Doeskins.
Groveland Mills, South Groveland, Mass., Flannels.
Oregon City Woolen Mills, Oregon, Fancy Cassimeres and Blankets.
Charles N. Bacon, Winchester, Mass., Felts.
William Walshaw, Saxonville Mills, Mass., Dyeing.
Meriden Woolen Co., Meriden, Conn., Union Cassimeres.
Farrington and Kinsey, Rahway, Extract of Wools.
Union Mfg. Co., Wolcottville, Conn., ¾ Black Doeskins.
Faxon and Wright, Philadelphia, Pa., Extract of Wools.
Henry Fox and Co., Urbanna, Ohio, Stocking Yarns, Tweeds, etc.
Henry Noske, Philadelphia, Pa., Paper Makers' Felts.
Norway Plains Co., Rochester, N. H., Blankets.
Clinton Mills Co., Norwich, Conn., Blankets.
C. W. and J. Pierce, Bristol, Felts, Rugs, etc.
American Silk Label Co., New York, Silk Labels.
Niantic Woolen Co., East Lyne, Conn., Cotton Warps, Tweeds, etc.
George Crompton, Worcester, Mass., Looms.
B. A. Earl, Philadelphia, Pa., Machinery.
Danforth Locomotive and Machine Works, Paterson, N. J., Silk Machine.
Knowles and Bro., Worcester, Mass., Looms.
Arlington Mills, Lawrence, Mass., Alpacas, Brilliants, etc.

Beckman and Co., Cleveland, Ohio, Wool Shoddies.
Tunxis Mills, Poquonnock, Conn., Colored Worsted Yarns.
Taylor and Mullen, Newark, Del., Carpets and Mats
James Roy and Co., West Troy, N. Y., Shawls.
Woonsocket Machine Co., Woonsocket, R. I., Spinning Wheel.
A. B. Prouty, Worcester, Mass., Machine.
Globe Woolen Co., Utica, N. Y., Fancy Cassimeres.
Weybosset Co., Providence, R. I., Fancy Cassimeres.
Lippet Woolen Co., Woonsocket, R. I., Overcoating and Fancy Cassimeres.
Economy Mills, Manayunk, Pa., Cotton Warp and Wool Fur Beavers.
Tillotson and Collins, Pittsfield, Mass., Cassimeres.
James Phillips, Jr., Fitchburg, Mass., Wool Suitings.
Camden Woolen Mills, Camden, N. J., Cotton Warps, Repellants, Flannels, etc.
Hartford Carpet Co., Hartford, Conn., Carpets.
Roxbury Carpet Co., Roxbury, Mass., Carpets.
J. Dryfoos and Co., New York, Felt Skirts.
North Star Mills, Minneapolis, Minn., Blankets.
Alexander Smith and Sons, Yonkers, N. Y., Carpets.
Hinsdale, Bros., Hinsdale, Mass., Carpets.
Lowell Mfg. Co., Lowell, Mass., Carpets.
Monitor Mills, Philadelphia, Pa., Carpets.
Bigelow Carpet Co., Clinton, Mass., Carpets.
Baltic Woolen Mill, New York, Repellants.
Martin Landenberger's Sons, Philadelphia, Pa., Dress Goods and Shawls.
John Bromley and Sons, Philadelphia, Pa., Carpets.
J. and H. Hutchinson, Brooklyn, N. Y., Mats.
Ivins, Dietz and Magee, Philadelphia, Pa., Carpets.
E. R. Mudge, Sawyer and Co., Washington Mills, Worsted and Stuff Goods.
Robert Rodman, Lafayette, R. I., Doeskin Jeans.
Waterloo Woolen Manufacturing Co., Waterloo, N. Y., Shawls.
Mission Woolen Co., San Francisco, Cal., Blankets.
Worumbo Mills, Lisbon Falls, Mo., Overcoatings.
Mississippi Mills, Mississippi, Wool Filling Jeans.
Bates Woolen Co., Lewiston, Me., Beavers and Repellants.
Shaffner and Stringfellow, Philadelphia, Pa., Germantown Wool.
Middlesex Co., Lowell, Mass., Woolen Goods.
Midnight Yarn Co., Philadelphia, Pa., Woolen Knitting and Germantown Yarns.
Germania Mills, Holyoke, Mass., Esquimaux Beavers and Doeskins.
Hockanum Co., Rockville, Conn., Fancy Cassimeres and Worsteds.
Belair Manufacturing Co., Pittsfield, Mass., Fancy Cassimeres.
Woodvale Woolen Mill, Johnstown, Pa., Fancy Cassimeres.
Burlington Woolen Mills, Burlington, Vt., Cassimere Overcoatings.
New England Manufacturing Co., Rockville, Conn., Woolen Cassimeres.
Broad Brook Co., Broad Brook, Conn., Fancy Cassimeres.
C. H. and F. H. Stotts, Stottsville, N. Y., Flannels.
Steam Woolen Co., Catskill, N. Y., Cheviot Suitings, Shawls, etc.
Pawtucket Hair Cloth Co., Pawtucket, R. I., Hair Cloth.
Sawyer Woolen Mill, Dover, N. H., Fancy Cassimeres, Suitings, etc.
Atlas Manufacturing Co., Newark, N. J., Wood Burring Machine.
United States Bunting Co., Lowell, Mass., Woolen Bunting Damasks.
Farrington and Kingsley, Rahway, N. J., Extract of Wools.
Tarr Alpaca Co., New York, Alpaca, Serges, etc.
Philadelphia Worsted Spinners' Association, Philadelphia, Pa., Worsted Yarns.

Hamilton Woolen Mills, Southbridge, Mass., Reps and Delaines.
Peacedale Co., Peacedale, R. I., Lastings.
Peacedale Manufacturing Co., Peacedale, R. I., Cassimeres, Shawls, etc.
R. Howard and Sons, Apponaug, R. I., Woolen Yarns.
Read Carpet Co., Bridgeport, Conn., Carpets and Terry.
Novelty Weaving and Braiding Works, Hartford, Conn., Braids.
Shaler and Bennington, Hamilton, Ohio, Felts.
Hamit and Booth, Paterson and New York, Plain Figured Silk.
Werner, Itschner and Co., Philadelphia, Pa., Silk Ribbon.
W. H. Horstmann and Sons, Philadelphia, Pa., Dress, Carriage, and Upholstery Trimmings.
Park and Woolson Machine Co., Springfield, Vt., Machines.
Leaver, Foster and Bowman, Boston, Mass., Sewing Silk.
Nonotuck Silk Co., Florence, Mass., Sewing Silk, and Silk Machinery.
B. B. Tilt and Son, Paterson, N. J., Figured Silk, and Silk Looms.
Belding Bros. and Co., Rockville, Conn., Sewing Silk.
Aub. Hackenburg and Co., Philadelphia, Pa., Sewing Silk.
S. M. Mayenberg, Paterson, N. J., Silk and Upholstery Goods.
John N. Stearns and Co., New York, N. Y., Figured and Twilled Silks.
Wm. Strange and Co., Paterson, N. J., Ribbons.
Fred. Baare, Paterson, N. J., Silk Gore.
Dexter, Lambert and Co., New York, N. Y., Silk Goods.
Cheney Bros., Hartford, Conn., Silks and Silk Ribbons.
Geo. W. Bond, Boston, Mass., Wools, Mohair, and Alpaca.
N. W. Jamison, Cadiz, Ohio, Merino Wool.
E. J. Heatt and Bros., Chester Hill, Ohio, Ohio Wool.
Walter Craig, Cadiz, Ohio, Wool.
J. B. Jamison, Cadiz, Ohio, Wool.
H. Bayless, Cadiz, Ohio, Merino Wool.
J. H. Holmes, Short Creek, Ohio, Merino Wool.
W. B. Low, Cornuilton, Ohio, Merino Wool.
S. S. Campbell, Cadiz, Ohio, Wool.
Isaac Thomas, Short Creek, Ohio, Wool.
Andrew Jamison, Short Creek, Ohio, Merino Wool.
W. O. Harrah, Cadiz, Ohio, Merino Wool.
M. L. Birney, Bowerstown, Ohio, Wool.
James Torrence, Utica, N. Y., Wools.
J. H. Kirkpatrick, Utica, N. Y., Merino Wool.
Albert Quigley, Cadiz, Ohio, Merino Wool.
Holland Manufacturing Co., Willimantic, Conn., Sewing Silk.
J. H. Hayden and Son, Windsor Locks, Conn., Sewing Silk.
Joseph Neumann, San Francisco, Cal., Raw Silk and Silk Cocoons.
M. Heminway, New York, N. Y., Sewing Silk.
Dale Manufacturing Co., Paterson, N. J., Silk Mohair (fancy braids).
Sutro Bros., New York, N. Y., Silk and Cotton Braids.
Louis Franke, New York, N. Y., Silk Fringes, Braids, etc.
S. B. and M. Fleisher, Philadelphia, Pa., Braids.
New York Woven Label Co., New York, N. Y., Woven Silk Labels.
Weidlemann and Grippo, Paterson, N. J., Dyed Silk.
Thomas F. Cumming, Stony Point, Merino Wool.
Chas. Headlam, Egleston, Merino Wool.
Samuel Page, Merino Wool.
Geo. W. Keach, Wool.
David Taylor, Merino Wool.
J. Brook, Merino Wool.
J. Ralston, Leicester Wool.

Dunelt and Eisenhardt, Philadelphia, Pa., Needle Loom, etc.
Enterprise Co., Thread Lastings.
Pacific Scouring Co.'s Wool, Wool.
Wolfenden, Shore and Co., Delaware Co., Pa., Cloth Loom.
Wanskuck Co., Providence, R. I., Overcoatings.
Newichiwannoch Co., South Berwick, Me., Blankets.
Leedom, Shaw and Stewart, Philadelphia, Carpets.
McCallum, Crease and Sloan, Philadelphia, Carpets.
Gibb and Co., Philadelphia, Carpets.
Ballard Vale Mills, Ballard Vale, Mass., Flannels, etc.
John C. Cutter and Co., Paterson, N. J., Sewing Silk, and Silk Machinery.
The Rock Manufacturing Co., Rockville, Conn., Fancy Cassimeres.
Pontusac Woolen Co., Pittsfield, Mass., Blankets, Rugs, Dress Goods, etc.
A. Groff and Son, Pawtucket, R. I., Alpaca Braids.
Conshohocken Mill, Conshohocken, Pa., Beavers and Doeskins.
J. Ledward and Son, Chester, Pa., Woolens.
S. Bachman, New York, N. Y., Shawls.
E. V. de Boissiere, Kansas, Silk Cocoons.
G. L. Kelty, New York, N. Y., Reps and Damasks.
F. Steffan and Co., Philadelphia, Shawls, etc.
Neman Beall, West Virginia, Ohio Co., Wool.
S. A. Cockayne, West Virginia, Moundsville, Wool.
John Ingram, West Virginia, Poplar Springs, Wool.
Eickmeyer Hat-Blocking Machine Co., New York City, Hat-Making Machinery.
C. H. Beall, Brook Co., West Virginia, Wool.

GROUP X.

CLOTHING, FURS, INDIA-RUBBER GOODS, ETC.

Daniel Hays, Gloversville, N. Y., Gloves and Gauntlets.
John C. Hutchinson, Johnstown, N. Y., Gloves and Gauntlets.
W. S. and M. S. Northrup, Johnstown, N. Y., Gloves and Gauntlets.
F. E. Colwell and Co., Chicago, Ill., Husking Gloves.
Pope Mfg. Co., Boston, Mass., Rifle Air Pistol.
Glendenning and Truitt, Philadelphia, Pa., Whips.
Robert Nickle, Rochester, N. Y., Magical Apparatus and Toys.
Emil Wahl, Philadelphia, Pa., Bone Work.
Ellis, Knapp and Co., New York City, N. Y., Umbrellas and Parasols.
W. A. Drown and Co., Philadelphia, Pa., Umbrellas and Parasols.
Joseph F. Tobin, New York City, N. Y., Whalebone Goods.
Celluloid Mfg. Co., Newark, N. J., Brushes, Jewelry, etc.
Henry Carlisle and Son, Philadelphia, Pa., Combs.
Althof, Bergmann and Co., New York, Mechanical Toys.
Heiter and Gans, New York City, N. Y., Umbrellas and Parasols.
Fred. Julius Kaldenburg, New York City, N. Y., Pipes.
J. H. Adams and Co., Providence, R. I., Shell Jewelry and Combs.
Waterbury Button Co., Waterbury, Conn., Buttons.
F. Armstrong, Bridgeport, Conn., Garters and Armlets.
Independent Comb Co., Wappinger Falls, N. Y., Combs.

Nax, Kuhn and Silberman, Philadelphia, Pa., Pipes.
National Button Co., Easthampton, Mass., Buttons, Ivory, Cloth, etc.
D. S. Spaulding, Mansfield, Mass., Shell Jewelry, Combs, etc.
Emil W. Montoux, New York City, N. Y., Hair Work, etc.
F. Grote and Co., New York City, N. Y., Turned Ivory, etc.
Fred. W. Ansley, St. Augustine, Fla., Feather Jewelry, etc.
H. H. Peacock, Philadelphia, Pa., Morocco, Wood, and Velvet Cases.
G. F. Kolb and Son, Philadelphia, Pa., Cases for Jewelry, etc.
Parkhurst and Gridley, Newark, N. J., Shawl and Book Straps.
Chas. P. Sellers, Philadelphia, Pa., Brooms, Whisks, etc.
C. F. Reynolds, New York City, N. Y., Artists' Pencils and Brushes.
Miles Bros. and Co., New York City, N. Y., Brushes and Pencils.
E. Clinton and Co., Philadelphia, Pa., Brushes and Pencils.
Bene, Creighton and Co., New York, N. Y., Ostrich Feathers.
New York Button Co., Brooklyn, N. Y., Metal and Covered Buttons.
J. W. Stewart, New York City, N. Y., Pins.
Oakville Pin Co., Waterbury, Conn., Pins.
Wm. Demuth and Co., New York City, N. Y., Pipes.
W. H. Noyes, Newburyport, Mass., Combs.
Scovill Manufacturing Co., Waterbury, Conn., Buttons.
Kursheed and Co., New York City, N. Y., Embroideries.
Jeff. O. Bentley, Philadelphia, Pa., Embroidered and Stamped Goods.
Joel Thomas, Philadelphia, Pa., Ruches, Ladies' Caps, etc.
Ed. S. Mawson and Sons, Philadelphia, Pa., Sealskin Sacks, Gloves, etc.
Duryes and Hallet, Rahway, N. J., Dressed and Dyed Seal Furs, etc.
W. H. R. Burnett, Newark, N. J., Furs, Opera Cloaks etc.
Sarah E. Bouney, Sterling, Mass., Feather Fans.
Mrs. R. E. Jenkins, Bordentown, N. J., Doll Shoes.
Mrs. J. H. Martin, Philadelphia, Pa., Feather Flowers.
Pierson and Herman, Newark, N. J., Hat Blocks, etc.
Jos. Schiller and Co., St. Louis, Mo., Hats.
Madam Demarest, New York, N. Y., Corsets.
J. H. Fenton and Bro., Philadelphia, Pa., Hats.
Alden Solmans, South Norwalk, Conn., Hats.
T. H. Amidons Sons, New York City, N. Y., Hats and Caps.
Schuyler, Hartley and Graham, New York City, N. Y., Military Hats and Caps.
J. S. Bancroft and Co., New York City, N. Y., Hats.
Christian Nonnenberger, Philadelphia, Pa., Hatters' Blocks and Tools.
Yates, Wharton and Co., Newark, N. J., Hats.
Dunlap and Co., New York City, N. Y., Hats.
Haverhill Hat Co., Haverhill, Mass., Wool Hats.
E. Morris and Co., Philadelphia, Pa., Hats.
John B. Stetson and Co., Philadelphia, Pa., Felt Hats.
Lowell Hosiery Co., Lowell, Mass., Hosiery.
Henry Gabriel and Son, Allentown, Pa., Hosiery.
Thomas Hughes and Co., Bristol, Pa., Hosiery.
Henry Zauner, Philadelphia, Pa., Zephyr Goods.
Norfolk and New Brunswick Hosiery Co., New Brunswick, N. J., Knitted Goods.
American Hosiery Co., New Britain, Conn., Underwear, etc.
G. H. Prindle, Philadelphia, Pa., Knit Goods.
John J. Glazier and Bro., Philadelphia, Pa., Hosiery.
A. B. Hapke, Harrisburg, Pa., Knit Goods.
Peck and Green, Brooklyn, N. Y., Worsted and Silk Goods, Underwear.
Star Knitting Co., Cohoes, N. Y., Underwear.

C. A. Thudium and Son, Philadelphia, Pa., Knitted Jackets.
W. K. Greene's Sons, Amsterdam, N. Y., Underwear.
Otis Co., Palmer, Mass., Underwear and Hosiery.
Martin Landenberger's Sons, Philadelphia, Pa., Knit Goods
Dana Bickford, New York City, N. Y., Knitted Articles.
American Netting Wear Co., St. Louis, Mo., Netted Underwear.
A. L. Willis, Philadelphia, Pa., Ice Creeper and Sandal Combined.
Jacobs, Strouse and Co., New York, Corset Steels or Busks.
Lewisohn Bros., New York, Human Hair.
Miss Elizabeth Sahler, Kingston City, N. Y., Wax Flowers.
H. C. Jones and Co., Philadelphia, Pa., Brush Blocks.
J. C. Hacker, New York, Fancy Leather Work.
J. Foresten Simpson, Philadelphia, Pa., Patent Trunk Fasteners and Lock Combined.
Crouch and Fitzgerald, New York, Trunks.
J. Lagowitz and Co., New York, Trunks, Bags, etc.
J. C. Gilmore and Co., New York, Trunks.
Edward Simon and Bros., Newark, N. J., Trunks and Bags.
W. C. Goodwin, New Haven, Conn., Toy Money Safes.
T. B. Peddie and Co., Newark, N. J., Trunks, etc.
Thomas Miller, New York, Umbrellas.
Boston Manufacturing Co., New York, Hosiery.
John C. Meyer, New Orleans, La., Badges, etc.
Isaac Bedichimer, Philadelphia, Pa., Gold and Silver Emblems.
W. H. Horstmann and Sons, Philadelphia, Pa., Regalia, Swords, etc.
Schuyler, Hartley and Graham, New York City, N. Y., Society Goods.
Jas. A. Haas and Co., Philadelphia, Pa., Metallic Emblems.
George P. Pilling, Philadelphia, Pa., Society Jewels.
M. C. Lilly and Co., Columbus, O., Masonic Goods and Society Supplies.
J. H. Wilson, Philadelphia, Pa., Society Swords, Badges, and Regalia.
Clarence A. Hart, Philadelphia, Pa., Painted Silk Banners and Paper Fringe.
New York Belting and Packing Co., New York City, Emery Vulcanite.
J. S. Cummings and Co., Philadelphia, Pa., Silk Neck Wear.
American Molded Collar Co., Boston, Mass., Combined Cloth and Paper Collars.
W. T. Hopkins, Philadelphia, Pa., Underwear for Ladies and Children, Infants' Dresses.
A. W. Thomas, Philadelphia, Pa., Bustle and Skirt Elevator, and Bosom Form.
Wanamaker and Brown, Philadelphia, Pa., Civil and Military Clothing.
E. O. Thomson, Philadelphia, Pa., Clothing.
Conrad Bros., Philadelphia, Pa., Shirts, Collars, and Cuffs.
John Wanamaker and Co., Philadelphia, Pa., Civil and Military Clothing.
Mrs. H. S. Hutchinson, New York City, Skirt Supporting Waist and Undergarments.
Devlin and Co., New York City, Civil and Military Clothing.
S. T. Taylor, New York City, Dress Cutting System and Patent Bias Cutting.
Mrs. Elmira Cornwall, Philadelphia, Pa., Graduated Chart for Dress Cutting.
Rothchilds Bros. and Gutman, New York City, Shirts, Drawers, and Underwear.
Mrs. E. Keyser, Philadelphia, Pa., Misses' Clothing, and Infants' Outfits.
Mrs. A. B. Stearns, Woburn, Mass., Graduated Chart for Dress Cutting.
Sharpless and Sons, Philadelphia, Pa., Costumes for Ladies.
Sweet, Orr and Co., Wappinger's Falls, N. Y., Pantaloons, Jackets and Overalls.

H. P. Cooper, New York City, Clothing for Gentlemen.
Homer, Colladay and Co., Philadelphia, Pa., Underwear for Ladies, Children, and Infants' Dresses.
James Hayden, Philadelphia, Pa., Shirts and Drawers.
Madam Demarest, New York City, Fashions, Paper Patterns, Dress-Cutting System, and Skirt and Stocking Suspenders.
Michaelis and Kaskel, New York City, Shirts and Underwear.
Henry Atkinson, Philadelphia, Pa., Buckskin Shirts and Drawers.
Nashawannuch Manufacturing Co., East Hampton, Mass., Elastic Rubber Suspenders and Webs.
National Suspender Co., New York, Suspenders.
Glendale Elastic Fabric Co., East Hampton, Mass., Woven and Braided Elastic Rubber Fabrics.
East Hampton Rubber Thread Co., East Hampton, Mass., India-Rubber Thread.
J. C. Hemple, Baltimore, Md., Rubber Diaper.
Moulded Heel Stiffening Co., Lynn, Mass., Moulded Counters for Shoes.
New Brunswick Rubber Co., New Brunswick, N. J., Rubber Boots and Shoes.
Andrew Albright, Newark, N. J., Hard Rubber-Coated Harness and Carriage Trimmings.
Austin G. Day, Seymour, Conn., Kerite.
Gossamer Rubber Co., Boston, Mass., Gossamer Waterproof Clothing.
Vulcanite Jewelry Co., New York, Vulcanite Jewelry.
Goodyear Rubber Co., New York, Rubber Goods.
J. Dickson and Co., Philadelphia, Pa., Engraving on Vulcanized Rubber.
G. M. Mowbray, North Adams, Mass., Pure Gutta-percha for Trusses and Instruments.
Clark S. Merriman, New York, Waterproof Life-saving Dress.
Crane and Co., Newark, N. J., Flexible Rubber Bits.
W. B. S. Taylor, New York, Flexible Tubing.
Joslin, Palmer and Williams, New York, Horn Jewelry.
Bender and Phillips, Hohokus, N. J., Sheet Wax and Wax Flower Material.
Fortuné Hegle, New York, Kid Gloves.
The Platt Bros. Co., Waterbury, Conn., Metallic Buttons for Pants.
L. H. Mahan, Jamaica Plains, Mass., Base Balls.
Peck and Snyder, New York, Base Ball Supplies.
Reach and Johnston, Philadelphia, Pa., Base Ball and Sporting Goods.
J. D. Shibe, Philadelphia, Pa., Base Balls.
S. Harris and Sons, Clinton, Mass., Horn Combs.
United States Corset Co., New York City, Woven Corsets.
Geo. Frost and Co., Boston, Mass., Corsets, Waist and Hose Supporters, and Emancipation Corsets.
Brewster Bros. and Co., Birmingham, Conn., Combined Corset and Skirt Supporters.
Boston Comfort Corset Co., Boston, Mass., Corsets without Bones.
Worcester Corset Co., Worcester, Mass., Corset and Skirt Supporters.
M. Cohn and Co., New York, Woven Corsets.
Judson Bros., New York, Shirts and Drawers.
Fog and Reynolds, Boston, Mass., Jacqueline Corsets and Misses' Waists.
India Rubber Comb Co., New York, Hard Rubber Goods.
National Rubber Co., Providence, R. I., Fine Hose.
Gutta Percha and Rubber Co., New York City, Fine Hose.
National Rubber Co., Providence, R. I., India Rubber Goods and Manufactures.
Davidson Rubber Co., Boston, Mass., Rubber Goods and Manufactures.

Pentengill and Sawyer, East Cambridge, Mass., Water-proof Oil-cloths and Water-proof Hats.
P. B. Eager, Tower and Co., Boston, Mass., Oil-cloth Clothing.
National Rubber Co., Providence, R. I., Belting.
New York Belting and Packing Co., New York City, India Rubber Goods.
New York Belting and Packing Co., New York City, Test Hose Vulcanized Rubber.
New York Belting and Packing Co., New York City, Rubber Belting.
Gutta Percha and Rubber Manufacturing Co., New York City, Vulcanized Rubber Goods.
National Rubber Co., Providence, R. I., Rubber Shoe Manufacture.
Otto Kaehler, Philadelphia, Pa., Stuffed Animals, Raw and Dressed Skins, etc.
Mrs. Treadwell and Co., Albany, N. Y., Seal Skins.
Birge and Berg, Philadelphia, Pa., Artificial Flowers of various Colors and Shades.
C. F. Rumpp, Philadelphia, Pa., Fancy Leather Work.
J. A. Stamback and Co., Philadelphia, Pa., Robes, etc.
F. Booss and Bro., New York, Fancy Fur Robes, Velvet Sack, etc.
Mrs. Helena Fuchs, St. Louis, Mo., Silk Embroidered Lace Dress with Point Lace.
Mrs. Olivia P. Flint, Boston, Mass., Weather Protector for Clothing Trimmings.
Mrs. A. DeEtta Bloodgood, New York, Sheet Wax, Wax Flowers, Leaves, Shells, Fruit, etc.
Harriet T. Bailey, Walworth, Wis., Ornamental Paper Cutting.

GROUP XI.

JEWELRY, WATCHES, SILVERWARE, BRONZES, ETC.

Derby Silver Co., Derby, Conn., Plated on German Silver Table Ware.
H. F. Barrows and Co., New York City, Gold Plated Goods.
Holmes, Booth and Hayden, Waterbury, Conn., Silver Plated Goods.
Mitchell, Vance and Co., New York City, Bronze, Marble, Zinc, and Imitation of Bronze.
Gorham Manufacturing Co., Providence, R. I., Silver Ware.
Ames Manufacturing Co., Chicopee, Mass., Bronze.
P. L. Krider, Philadelphia, Pa., Solid Silver Table and Hollow Ware.
Gorham Manufacturing Co., Providence, R. I., The Century Vase, in Solid Silver.
Tiffany and Co., New York, Jewelry and Jeweled Watches.
Fortenbach and Sons, Carlstadt, N. J., Silver Watch Cases.
Tiffany and Co., New York, Silver Work.
Robbins and Appleton, New York, Gold and Silver Watch Cases.
Reed and Barton, Taunton, Mass., Silver Plated Goods.
Reed and Barton, Taunton, Mass., a large Nickel Plated Vase.
Milo Hildreth, Northboro', Mass., Tortoise Shell Goods.
C. and A. Pequignot, Philadelphia, Pa., Gold Watch Cases.
Adams, Shaw and Co., Providence, R. I., Silver Plate.
Wm. K. Potter, Providence, R. I., Tortoise Shell Jewelry and Ornaments.

Isaac Bedichimer, Philadelphia, Pa., Gold Work.
Simmons, Opdyke and Co., Philadelphia, Pa., Gold and Silver Work.
Hamilton and Hunt, Providence, R. I., Rolled Plate Vest Chains.
C. Cottier and Sons, New York, Lapidary Work.
Manning, Bowman and Co., West Meriden, Conn., Nickel-plated Ware.
J. S. Adams and Co., Providence, R. I., Tortoise Shell Goods, Jewelry.
Charles Neher, Philadelphia, Pa., Hair Ornaments.
John C. Meyer, New Orleans, La., Jewelry and Gold Work.

GROUP XII.

LEATHER AND MANUFACTURES OF LEATHER, ETC.

Kiefer, Stiefel and Co., Pittsburgh, Pa., Oak Harness Leather.
Alex. Halstein, Pittsburgh, Pa., Oak Harness Leather.
T. P. Howell and Co., Newark, N. J., Patent Leather in Variety.
Josiah F. Gould, Boston, Mass., Pebble-grain Imitation Goat in Colors and Buff Leather.
Edwin Chambers, West Chester, Pa., Oak-tanned Calf Skins.
Laffe and Hax, Pittsburgh, Pa., Oak Harness Leather.
Amos Hollinger, Lancaster, Pa., Oak Harness Leather.
Koshland and Bros., Portland, Oregon, Hemlock and Oak-tanned Harness Leather.
Dana, Moffet and Co., New York, Harness and Russet Leather in Variety.
S. Halsey and Son, Newark, N. J., Patent and Carriage Leather and One Hide of Oil-top Leather.
J. B. and T. M. Weed and Co., Binghamton, N. Y., Pebble Grain.
Henry G. Ely and Co., New York, N. Y., Buff, Pebbled, Glazed, and Split Leather.
B. F. Thompson and Co., Boston, Mass., Buff, Pebbled-grain, Glazed, and Split Leather.
J. C. Lappe, Pittsburgh, Pa., Oak Harness Leather.
Sharp, Tudor and Co., Baltimore, Md., Buff Leather, Oak-Tanned.
Maynard, Ely and Rose, Baltimore, Md., Calf Skins.
Ohio Falls Leather Co., Louisville, Ky., Oak-tanned Harness and Shoe-skirting Leather.
W. W. and J. E. Mooney, Columbus, O., Sole, Harness, and Whole-hide Rough Leather.
Henry Fruberg, Cincinnati, O., Oak-tanned Harness Leather.
James Calling, Pittsburgh, Pa., Oak Harness Leather.
Lewis C. Bardes, Cincinnati, O., Oak-tanned Harness and Leather.
Frederic Baum, Philadelphia, Pa., Kip and Calf Skins (Oak-tanned).
Philip C. Zipp, Baltimore, Md., Wax Calf (Oak-tanned) and Boarded Grain Kip Skins.
Walker, Oakley and Co., Chicago, Ill., Calf and Waxed Upper Leather.
Butler, Drum and Co., Boston, Mass., Buff Leather.
Lang and Warner, Cincinnati, O., Oak Sole Leather.
F. Osborne, Jr., and Co., Boston, Mass., Wax Kip Leather.
J. Weil and Bro., Chicago, Ill., Wax Leather and Calf Skins.
C. Sudy and Sons, Philadelphia, Pa., Oak-tanned Calf Skins.
Hubner and Keller, New York, N. Y., Oak-tanned Calf Skins.
Kees and Thorne, New York, N. Y., Hemlock Sole Leather from Wellsbury Tannery.

Studwell, Sanger and Co., Gardiner, N. Y., Union Crop Sole Leather.
George Appold and Son, Baltimore, Md., Oak-tanned Sole Leather, Oak-tanned Calf-Skins.
Thorne, McFarland and Co., New York, N. Y., Hemlock Sole Leather from Thornedale Tannery.
Beach and Dodge, Harrisville, N. Y., Hemlock Sole Leather.
Robinson and Hopple, New York, N. Y., Hemlock Sole Leather.
W. E. Plummer, Boston, Mass., Rotary Tan Press.
Page Belting Company, Concord, N. H., Belt and Lace Leather.
Henry L. Fairbrother and Co., Pawtucket, R. I., Belt Leather (Gambier tanned), Lace Leather, etc.
J. A. Bechtel and Son, Newport, Pa., Oak Sole Leather.
W. H. Rosenteel and Son, Johnstown, Pa., Union Crop Leather.
Chatfield, Underwood and Co., New York, N. Y., Belt Leather.
J. B. Stoll and Co., Louisville, Kentucky, Shoe Skirting Oak-tanned Leather.
John Bau, Mt. Union, Pa., Union Crop Leather.
Spangle and Pannebaker, Philadelphia, Oak Sole Leather from Texas Hides.
J. L. Somerville, Bellefonte, Pa., Oak Sole Leather.
Genseman, Miller and Co., Penn Grove, Pa., Oak Sole Leather.
Daniel P. Ray, Tyrone, Pa., Union Crop Leather.
A. D. Faust and Son, Upper Dublin, Pa., Oak Sole Leather.
E. T. Brown (for James Davis and Co., Pittston, Luzerne Co., Pa.), New York, N. Y., Union Crop Sole Leather.
Ordway and Clark, Haverhill, Mass., Shoes.
Geo. C. Howe, Haverhill, Mass., Shoes and Slippers.
Moses Howe, Haverhill, Mass., Shoes and Slippers.
E. T. Bancroft and Co., Lynn, Mass., Shoes and Slippers.
W. F. Breed, Dole and Co., Lynn, Mass., Shoes, Slippers, and Gaiters.
Nelson M. Johnson, St. Louis, Mo., Boots and Gaiters.
Adler and Clement, Baltimore, Md., Shoes.
Barrous and Boyd, New York, N. Y., Shoes and Slippers.
Gordon McKay, Boston, Mass., Shoe Machinery.
J. G. Bruzzell and Co., Lynn, Mass., Shoe Machinery.
A. F. Stowe, Worcester, Mass., Leather Machinery.
Estabrook and Wires, Milford, Mass., Sole Fastener for Shoes.
McKay Sewing Machine Co., Boston, Mass., Sewing Machine for Stamps.
Hamilton Web Co., Wickford, R. I., Webs for Shoes.
Estabrook, Wires and Co., Milford, Mass., Boot and Shoe Trees.
L. S. Graves, Rochester, N. Y., Machinery for Shoe Manufacturers.
Goodyear and McKay Sewing Machine Association, Boston Mass., Sewing Machines.
Edwin C. Broot, New York City, Ladies' Fine Made Shoes.
Allen Gates and Bro., Philadelphia, Pa., Women's Gaiters.
Bannister, Tichnor and Co., Newark, N. J., Boots and Shoes.
Edward Spalding, Boston, Mass., Hemlock Sole Leather.
Schoellkoff and Son, Buffalo, N. Y., Hemlock Sole Leather.
Lapham, Smibert and Co., Chicago, Ill., Hemlock Sole Leather.
Mosser, Kech and Co., Allentown, Pa., Union Crop Leather.
Wedekind, Hallenburg and Bro., Louisville, Ky., Oak Sole Leather.
D. Frantz and Son, Louisville, Ky., Oak Sole Leather.
Thomas E. Proctor, Boston, Mass., Hemlock Sole Leather.
Barnes and Merritt, New York, N. Y., Hemlock Sole Leather.
Henry J. Rife, Philadelphia, Pa., Oak Sole Leather.
A. K. Shriver and Son, Union Mills, Md., Oak Sole Leather from Te Hides.
C. A. Rippman, Newport, Ky., Oak Upper Leather.

A. Rumsey and Co., Buffalo, N. Y., Hemlock Sole Leather.
Henry Kessler, Cincinnati, Ohio, Oak Sole Leather Slaughter Hides.
Elsas and Pritz, Cincinnati, Ohio, Oak Sole Leather Slaughter Hides.
Michael Eckert, Cincinnati, Ohio, Oak Sole Leather Slaughter Hides.
C. H. and G. L. Williams, Buffalo, N. Y., Hemlock Sole Leather.
Bush and Howard, Buffalo, N. Y., Hemlock Sole Leather.
A. P. Baer and Co., Baltimore, Md., Oak Sole Leather.
Conrad, Fabel and Mooney, Louisville, Ky., Oak Sole Leather.
J. B. Hoyt and Co., New York, N. Y., Union Crop Sole Leather.
G. B. Horton and Co., Ridgway, Pa., Hemlock Sole Leather.
C. Trautware and Co., Louisville, Ky., Oak Sole Leather.
F. H. Burt and Son, Mannington, W. Va., Oak Sole Leather.
J. P. Wilkinson and Bro., Unionville, Pa., Oak Sole and Rough Upper Leather.
Keen and Coates, Philadelphia, Pa., Oak Sole Leather.
J. J. and K. Greenwalt, Harrisburg, Pa., Oak Sole Leather.
J. E. Bulkley and Son, New York, N. Y., Hemlock Sole Leather.
E. and D. Nepper, Cincinnati, O., Oak Sole Leather Slaughter Hides.
A. and J. Groetzinger, Allegheny City, Pa., Oak Sole Leather.
Jenkins, Staylor and Co., Baltimore, Md., Heavy Oak Sole Leather.
Schultz, Southwick and Co., New York, Union Crop Sole Leather.
Hoyt Brothers, New York, Hemlock Sole Leather.
J. W. and A. P. Howard, Corry, Pa., Hemlock Sole Leather.
Leas and McVitty, Philadelphia, Pa., Oak Sole Leather.
A. Corbin and Co., New Milford, Pa., Hemlock Sole Leather.
Thos. R. Evans, Philadelphia, Pa., Boot and Shoe Trees and Stretchers.
McKay Lasting Machine Association, Boston, Mass., Machines for Lasting and Tacking Shoes.
James Wensley, Philadelphia, Pa., Children's Fancy and Plain Morocco and Serge Shoe Uppers.
Wm. Butterfield and Co., New York, Anchor Button Fastener.
Lawrens Ede Warren, Philadelphia, Pa., a Patent Seam for the Backs of Shoes.
The N. S. Jamison Boot and Shoe Crimping Machine Co., New York, a Machine for Crimping Boots and Shoes by Power.
American Cable Screw Wire Co., New York, Standard Screw Wire Machine, for Uniting the Soles to the Uppers of Boots and Shoes.
Geo. W. Baker, Wilmington, Del., a Sewing Machine for Sewing Sheep Skins preparatory to Tanning.
Union Edge-Setter Co., Boston, Mass., a Machine for Setting or Burnishing the Edges of Shoes.
McKay and Bigelow Heeling Machine Assoc., Boston, Mass., a Heel Compressing, Attaching, and Trimming Machine.
Tayman Shoe Machine Co., Philadelphia, Pa., Shoe Trimming and Burnishing Machines.
The American Shoe Tip Co., Boston, Mass., Protection for the Toes of Boots and Shoes.
Chas. Knees, Baltimore, Md., Samples of Cordova Leather.
J. Barton Smith, Philadelphia, Pa., Rasps and Files for Shoemakers' Use.
L. Falley and Co., La Fayette, Ind., Men's, Women's, and Children's Heavy Peg Work.
Waldo M. Claflin, Philadelphia, Pa., Men's and Boys' Hand-screwed or Estenbrook Screw Boots, Gaiters, and High Shoes.
Foster and Quiggle, Milford, Mass., Men's and Boys' Fine Screw-fastened Shoes and Gaiters.
Ara Cushman and Co., Auburn, Me., Peg, Screw, and Machine-Sewed Boots.

Frederick Jones and Co., Boston, Mass., Men's and Boys' Heavy Pegged and Screwed Boots and Shoes.
E. and A. Batcheller, Boston, Mass., Nailed and Pegged Boots, Shoes, and Brogans.
Jenkins, Lane and Sons, Boston, Mass., Men's Pegged and Screwed Boots and Shoes.
Thomas Emerson's Sons, Boston, Mass., Machine-Sewed and Hand-Made Shoes, etc.
Isaac Prouty and Co., Spencer, Mass., Men's, Youths', etc., Heavy Peg Work.
Fogg, Houghton and Coolidge, Boston, Mass., Men's, etc., Pegged and Machine-Sewed Boots and Shoes.
R. W. Emerson and Co., Boston, Mass., Ladies', Misses', etc., Pegged Boots and Shoes.
Keppendorf and Hart, Cincinnati, O., Women's, Misses', etc., Machine-Sewed Work.
Stribley and Co., Cincinnati, O., Women's, Misses', etc., Medium Grade Machine-Sewed Boots.
S. D. Sollers and Co., Philadelphia, Pa., Children's and Infants' Boots and Shoes.
West Bros., Philadelphia, Ladies', etc., Machine-Sewed Boots.
Bay State Shoe and Leather Co., New York City, Men's, etc., Women's, etc., Boots and Shoes, Sewed, Pegged, etc.
Lilly, Young, Pratt and Brackett, Boston, Mass., Boots and Shoes.
Kelly and Moore, Philadelphia, Pa., Ladies' Gaiters.
Cutlan Shoe-Sewing Machine Co., Philadelphia, Machine for Sewing Upper to Sole.
The National Boot and Shoe Tip Co., Boston, Mass., Colored Raw Hide Boot and Shoe Tip.
Eugene Creed, New York City, Men's Boot and Shoe Uppers.
Dawley and Derby, New York City, Lasts, Boot Trees, etc.
J. H. Richelderfer, Philadelphia, Gents' and Ladies' Over Gaiters, Hunting Leggings.
John Tagett, Philadelphia, Boot and Gaiter Patterns.
Abram Hewling, Philadelphia, Patent Ice Creeper.
McLoughlin, Grover and Lloyd, New York and Philadelphia, Dies for Leather, Paper, Planing Machines, etc.
Marcus Hanan, New York City, Zinc and Brass Edged Shoes, Patterns, etc.
Graves, Bull and Co., Albany, N. Y., Shoe Lasts and Patterns.
J. E. Mitchell, Philadelphia, Rub, Clearing, and Scouring Stones.
Hanan and Dewes, New York City, Cutters or Dies for Cutting Leather.
John K. Gittens, Brooklyn, N. Y., Insoles, Corks.
McKay Sewing Machine Assoc., Boston, Mass., Machines for uniting the Soles to the Uppers of Boots.
Hantin Sewing Machine Co., New York, Lock-Stitch Sewing Machine.
Wm. Driesbach and Co., Philadelphia, Shoe Bows and Rosettes.
Simon and Redifer, Philadelphia, Men's and Women's, etc., Lasts for Shoes.
Jenkins Bros. and Co., South Abingdon, Mass., Steel Shoe Shanks.
Israel G. Sutherland, Lynn, Mass., Boot and Shoe Patterns.
The Tubular Rivet Co., Boston, Mass., Tubular Rivets.
Henry J. Pratt, Abington, Mass., Last Block Fastener.
David Knox, Lynn, Mass., Machines for Leather and Soles of Shoes.
George C. Walters, Philadelphia, Pa., Machine for Sewing Wet Skins.
Tapley Heel-Burnishing Machine Assoc., Boston, Mass., Machine for Burnishing Heels of Shoes.
C. H. Fargo and Co., Chicago, Ill., Boots and Shoes.

Meyer and Stern, Philadelphia, Pa., Shoes.
Henry Leh and Co., Allentown, Pa., Boots and Brogans.
Thos. Feary and Son, Albany, N. Y., Shoes.
Kenney and McPartland, New York, N. Y., Shoe
M. D. Wells and Co., Chicago, Ill., Boots, etc.
Laird, Schober and Mitchell, Philadelphia, Pa., Shoes.
E. B. Stimpson, New York, N. Y., Shoe Machinery.

GROUP XIII.

PAPER, STATIONERY, PRINTING AND BOOK-MAKING.

Tileston and Hollingsworth, Boston, Mass., Paper.
Jessup and Moore, Philadelphia, Pa., Paper.
Megargee Bros., Philadelphia, Pa., Paper of all kinds.
L. L. Brown Paper Co., South Adams, Mass., Paper.
Seymour Paper Co., Windsor Locks, Conn., Paper.
Crane and Bros., Westfield, Mass., Paper.
Southworth and Co., Mittineaque, Mass., Paper.
Crane and Co., Dalton, Mass., Paper.
Louis Dejonge and Co., New York City, Fancy Papers and Bookbinders' Cloths.
Gordon A. Dunlap, Philadelphia, Pa., Building and Manilla Felts.
McNiel, Irving and Rich, Elwood, N. J., Building Paper.
Tiffany and Co., New York City, Wedding Stationery.
Chas. J. Cohen, Philadelphia, Pa., Oiled Paper, etc.
Dennison and Co., Boston, Mass., Jewelers' Boxes, Tags, Labels, Seals, etc.
Joseph Parker, Son and Co., New Haven, Conn., Blotting Paper.
Barrett, Arnold and Kimball, Chicago, Ill., Aluminous Building Paper.
N. M. Kerr and Co., Philadelphia, Pa., Paper Boxes and Jewelers' Findings.
Bennett Osborn, Newark, N. J., Paper Boxes.
A. Dougherty, New York City, Playing Cards.
Carnell and Shelton, Birmingham, Conn., Folding Paper Boxes.
Bender and Phillips, Hohokus, N. J., Sheet Wax.
Danl. McLean Somers, Brooklyn, N. Y., Penholders.
Eberhard Faber, New York City, Rubber Stationers' Goods.
Esterbrook Steel Pen Co., Camden, N. J., Steel Pens.
Jos. Dixon Crucible Co., Jersey City, N. J., Lead Pencils.
Eagle Pencil Co., Yonkers, N. Y., Lead and other Pencils.
Mabie, Todd and Co., New York, Gold Pens, Pencils, etc.
John Foley, New York, Gold Pens, Pencils, etc.
John Holland, Cincinnati, O., Gold Pens.
L. W. Fairchild and Co., New York, Gold Pens, Pencils, etc.
Aiken, Lambert and Co., New York City, Gold Pens, Cases, etc.
Geo. F. Hawkes, New York City, Fountain Pen and Holder.
Janentzky and Co., Philadelphia, Pa., Artists' Materials.
Nicholas Muller's Sons, New York City, Bronze Inkstands.
G. K. Cooke and Co., New York City, Revolving Hand Stamp.
Brower Bros., New York City, Inkstands.
Wm. A. Amberg, New York City, Files and Binders.
Geo. W. McGill, New York City, Paper Fasteners.
Koch, Sons and Co., New York City, Blank Books, Scrap Books, etc.

E. W. Woodruff, Washington, D. C., File Holders.
Heart, Bliven and Mead Manufacturing Co., New York City, Stationery Hardware.
Ivanhoe Manufacturing Co., Paterson, N. J., Paper.
A. J. Holman and Co., Philadelphia, Pa., Bookbinding of Albums and Bibles.
Porter and Bainbridge, New York City, Visiting and Wedding Cards and Papeteries.
Wm. H. Page and Co., Greeneville, Conn., Wood Type.
Campbell Printing Press and Manufacturing Co., New York City, Printing Presses.
Degener and Weiler, New York City, Small Job Printing Presses.
Golding and Co., Boston, Mass., Small Job Presses.
Geo. A. Gordon, New York City, Job Printing Presses.
W. H. Hoskins, Philadelphia, Pa., Engraved Stationery.
John Dickson and Co., Philadelphia, Pa., Vulcanized Rubber Engravings.
Mackellar, Smiths and Jordan, Philadelphia, Pa., Type Founding Machinery, Types and Printing Materials.
George H. Sanborn, New York, N. Y., Paper-Cutting Machines.
T. and E. Waldron, New Brunswick, N. J., Wall Paper, Printing Machine, and Turn Around Drying Machine.
W. E. and E. D. Lockwood, Philada., Pa., Automatic Envelope Machine.
Rhode Island Cardboard Co., Pawtucket, R. I., Cardboard.
Howell and Bros., Philada., Pa., Hanging-up Machine, Hardening Machine, Cutting-off and Rolling Machine.
Hoe and Co., New York, N. Y., General Exhibit of Printers' Presses, and Materials for Printers' Use.
Byron Weston, Dalton, Mass., Fine Paper.
Cottrell and Babcock, New York, N. Y., Stop Cylinder Printing Press.
Cleveland Paper Box Machine Co., Cleveland, Ohio, Machine for making Paper Boxes.
W. O. Davey and Sons, Jersey City, N. J., Binders' Trunk and Boxboards.
George Fangermann, Hamilton, Ohio, Roofing and Carpet Paper.
Ignatius Kohler, Philada., Pa., Bookbinding.
Moss and Co., Philada., Pa., Blank Books and Bookbinding.
Sanford and Co., Cleveland, Ohio, Blank Books.
J. B. Lippincott and Co., Philada., Pa., Bookbinding and Printing.
A. Reed and Co., Philada., Pa., Ornamental Bookbinding.
J. R. Beckett and R. Cervi, Cambridge, Mass., Bookbinding.
George Bruce's Son and Co., New York, N.Y., Printing Types.
V. Grottenthaler, Philada., Pa., Boxwood for Engravers' Use.
Hurlburt Paper Co., South Lee, Mass., Fine Paper.
Wm. F. Murphy's Sons, Philada., Pa., Blank Books.
C. C. Childs, Boston, Mass., Country Newspaper and Job Press.
C. C. Childs, Boston, Mass., Paper-Cutting Machine.
Boston and Fairhaven Iron Works, Fairhaven, Mass., Newspaper and Job Printing Press.
Standard Machinery Co., Mystic River, Conn., Machine for Rounding and Backing Books.
Mary H. Semple, Lowell, Mass., Book-Trimming Machine.
Charles W. Packer, Philada., Pa., Machine for Cutting Cardboard.
Westerbury, Jefferson and Co., New York, N. Y., Decorative Paper.
Frederick Beck, New York, N. Y., Decorative Paper.
Howell and Brother, Philada., Pa., Decorative Paper.
Howell and Burke, Philada., Pa., Decorative Paper.
M. Gally (in place of Haughwout), New York, N. Y., Small Printing Presses.

H. O. Houghton and Co., Riverside Press, Cambridge, Mass., Bookbinding.
William Mann, Philadelphia, Pa., Copying Paper and Blank Books.
W. W. Harding and Co., Philadelphia, Pa., Bookbinding, etc.
Whiting Paper Co., Holyoke, Mass., Ledger, Fancy and Colored Writing Papers.
Samuel Darling, Providence, R. I., Fountain Inkstand with Pen-gauged Dipping Cup.
Chambers Bros., Philadelphia, Pa., Newspaper and Periodical Folder, Paster, and Trimmer.
John R. Hoole, New York, N. Y., Perforating Machine for Checks, Stamps, etc.
United States Stamped Envelope Works, Hartford, Conn., Machine for Gumming, Embossing Die, Folding and Counting Government Envelopes.
W. A. Kelsey and Co., Meriden, Conn., Amateur Printing Presses.
Louis Dreka, Philadelphia, Pa., Invitation Card, Stationery, etc.
John B. Metz, Dubuque, Iowa, Blank Books with Patent Ends and Sides.
E. H. Barney, Springfield, Mass., Bank Perforating Stamp.
Brown and Carver, Philadelphia, Pa., Paper-Cutter and Rotary Card-Cutter.
E. R. and T. W. Sheridan, New York, N. Y., Book-Sawing Machine.
S. C. Forsaith and Co., Manchester, N. H., Newspaper Folding Machines.
W. O. Hickok, Harrisburg, Pa., Paper Ruling Machines.
C. Potter, Jr., and Co., New York, Stop Cylinder Printing Press.
D. Appleton and Co., Philadelphia and New York, Book-Binding.
B. O. Woods and Co., Boston, Mass., Amateur Printing Presses.
Chas. Eneu Johnson, Philadelphia, Pa., Automatic Feeder for Printing Machines.
A. and B. Newberry, Coxsackie, N. Y., Job Printing Press.
Novelty Paper Box Co., Philadelphia, Pa., Wire Stitching Machine for Books and Pamphlets.
Gustav L. Gaeger, New York, Machine for Pasting and Combining Paper or Textile Fabrics in Sheets.
Fry's Engraving Establishment, Sixth and Minor Sts., Philadelphia, Pa., Engraved Dies, Stamps, and Tools.
American Tract Society, New York, Book-Binding.
American Baptist Society, Philadelphia, Pa., Book-Binding.
Rose and Macdonald, Philadelphia, Pa., Printers' Rollers.
Gavit Paper Machine Works, 224 to 230 North Broad St., Philadelphia, Pa., Paper-Making Machinery.
F. Tuchfarber and Co., Cincinnati, O., Enameled Iron Show Cards.
W. H. Windsor, Little Rock, Ark., Printers' Form Frame.
Thos. Kelly, New York, Books.
Mrs. J. F. Miller, Springfield, Mass., Samples of Job Printing.
Geo. W. Martin, Topeka, Kan., Book-Binding, Specimens of Ruling and Binding.
Bradley and Ruloffsen, San Francisco, Photographs and Designs.
Porter and Coates, Philadelphia, Pa., Books.
Miller's Bible Publishing House, Philadelphia, Pa., Bibles.
G. and C. Merriam, Springfield, Mass., Books.
Crane Brothers, Westfield, Mass., Paper Baskets.
J. R. Osgood and Co., Boston, Mass., Books.
Scribner, Armstrong and Co., New York, Books.
R. T. Hazzard, Philadelphia, Pa., Wall Paper Decoration.
Allen, Lane and Scott and Lauderbach, Philadelphia, Pa., An Illustrated Book—"A Century After."
J. M. Stoddart and Co., Philadelphia, Pa., Books.

E. Waters, Troy, N. Y., Paper Cans for Kerosene Oil.
Parhwist and Gridley, Newark, N. J., General Shawl and Book Strap.
French Paper Ware Co., Springfield, N. J., Paper Ware.
Morton, Poole and Co., Wilmington, Del., Paper Manufacturing Machinery.
Lobdell Car-Wheel Co., Wilmington, Del., Paper-Making Machinery.
Globe Manufacturing Co., Palmyra, N. Y., Printing Presses.
Holyoke Machine Co., Holyoke, Mass., Gould's Patent Beating Engine.
Holyoke Machine Co., Holyoke, Mass., Geo. W. Hammond's Patent Stop Cutter, and a Stack of Super Calenders.
Lindsay and Blakiston, Philadelphia, Pa., Books.
American Bible Society, New York, N. Y., Bibles and Testaments.
G. T. Putnam and Sons, New York, N. Y., Books.
Harper Brothers, New York, N. Y., Books.
Brewer and Tileston, Boston, Mass., Reading Books.
Methodist Book Concern, New York and Cincinnati, Books.
Chas. Guie and Sons, Downingtown, Pa., Paper Wrappers.
Pusey, Jones and Co., Wilmington, Del., Paper Manufacturing Machine.
Howlett, Onderdonk and Co., Philadelphia, Pa., Machine-made Paper Bags.
Wm. Braidwood, New York City, Paper-folding Machine for Blank Books.
Samuel Raynor and Co., New York City, Envelopes.
Chas. S. Westcott, New York City, Machines for Casting, Dressing, and Composing Type.
Oldack and Mergenthaler, Philadelphia, Pa., Book-Binding.
Samuel Raynor, New York City, Envelope Gumming and Folding Machine.
Francis and Loutrel, New York City, Blank Books.
Nerman Gath, Bethlehem, Pa., Oil-painted Wall Paper.
Clague, Randall and Co., Rochester, N. Y., Automatic Pamphlet-Covering Machine.
Maclachlan, Hopkins and Co., New York City, Paging and Numbering Machines.
R. Hoe and Co., New York City, Newspaper Press.

GROUP XIV.

APPARATUS OF HEATING, LIGHTING, ETC.

W. H. Jackson and Co., New York, Grates and Fenders for open Fires and Fire Places.
Dover Stamping Co., Boston, Mass., Dover Egg Beater.
Austin, Opdyke and Co., Philadelphia, Pa., Galvanized Corrugated Rain Spout.
Isaac N. Deardorff, Canal Dover, Tuscarawas Co., Ohio, Improved Smoke-House Stove.
Pennsylvania Galvanic Works, Philadelphia, Pa., Galvanized Goods of all Descriptions.
Duncan Cameron, New York, Steam Fruit Preservers.
Redlichs Manufacturing Co., Wooden Faucets saturated with India-Rubber.
United States Soapstone Furnace Co., Boston, Mass., Soapstone Furnace.
Wakefield Earth Closet Co., New York, Earth Closets, Cabinet Closets.
William L. Gregg, Philadelphia, Pa., The Ceramic Gas Kiln.
The Keller Manufacturing Co., Harrisburg, Pa., Standard Quart Measure.

Geo. I. Mix and Co., Yalesville, Conn., Iron and Britannia Spoons, Silver Plated Water Coolers, etc.
Jos. H. Corey, New York, N. Y., Improved Culinary Boiler, etc.,
Detroit Stove Works, Detroit, Mich., Stoves for Parlors, Halls, Stores, etc.
Henry Chatain, Washington, D. C., Oven for Baking, Confectioners, Hotels, etc.
Sidney Shepherd and Co., Buffalo, N. Y., Ice Cream Freezers, Patented Palace Coal Vases, Novelty Oil Cans.
Isidor Brach, Philadelphia, Pa., Reversible Water Filter, etc.
Tuttle and Bailey, New York, Vertical Wheel Registers for Heating and Ventilation.
Newark Tea Tray Co., Newark, N. J., Tray and Waiters (japanned).
Musgrove and Son, New York, N. Y., Planished and Japanned Silver Ware.
Charles Noble and Co., Philadelphia, Pa., Stoves, Ranges, etc.
Ella Haller, New York, N. Y., Reservoir Fruit Jar.
Ethelbert Watts, Philadelphia, Pa., Combination Bath Trunk.
Enterprise Manufacturing Co., of Pennsylvania, Philadelphia, Pa., Double Pointed Smoothing Irons, Sausage Stuffer, and Coffee Mill.
J. Eldridge Smith, Philadelphia, Pa., Double Griddle.
Jacob H. Polhamus, New York, N. Y., Refrigerating Cupboard and Safe.
Smith Refrigerator Co., Albany, N. Y., Dry Air Refrigerator.
Charles G. Blatchley, Philadelphia, Pa., Horizontal Ice Cream Freezer.
Stuart, Peterson and Co., Philadelphia, Pa., Tinned and Enameled Cast Iron Hollow Ware.
W. S. Carr and Co., New York, N. Y., Bath-Room Furniture.
Henry C. Meyer, New York, N. Y., Murdoch Patent Anti-Freezing Hydrant.
Edward Wattis, Jr., Philadelphia, Pa., Wattis Patent Pocket Flask.
St. Louis Stamping Co., St. Louis, Mo., Kitchen Ware.
E. Pratt, Philadelphia, Pa., Soapstone Goods, including Stoves, Sinks, etc.
Manning, Bowman and Co., West Meriden, Conn., Tea and Coffee Pots, and Urns.
Lewis W. Leeds, New York, N. Y., Improved Methods of Ventilation and Heating (diagrams).
W. F. Wheeler, Boston, Mass., Disinfector Apparatus.
Ernest W. Bowditch, Boston, Mass., Plans for Rural Parks for Boston.
Holmes, Booth and Hayden, Waterbury, Conn., Kerosene Oil Burners, Lamps, etc.
Chas. E. Fowler, New Haven, Conn., Plans of Sewerage and Drainage of New Haven.
Moorehead Clay Works, Philadelphia, Pa., Drain and Sewer Pipe.
American Calcium Light Co., Philadelphia, Pa., Improved Calcium Light Apparatus.
Wm. B. Hazzard, Philadelphia, Pa., Skylight Shades.
Geo. D. Rollins, Philadelphia, Pa., Automatic Gas Burner.
Nathan W. Walker, Wellsville, Columbiana Co., O., Sewer Pipes.
Keen and Hagerty, Baltimore, Md., Hagerty's Patent Street Lamp.
White Manufacturing Co., Bridgeport, Conn., Carriage Lamps, Dash Lamps, etc.
Excelsior Lantern Co., or Miller and Eastmead, New York, N. Y., Lanterns.
Wm. G. Creamer, New York, N. Y., Car Lamps.

GROUP XV.

BUILDERS' HARDWARE, TOOLS, CUTLERY, ETC.

Hart, Bliven and Mead Manufacturing Co., Kensington, Conn., and New York, Building and Household Hardware, and Furniture Trimmings.
Lloyd, Supple and Walton, Philadelphia, Screw and Spring Padlocks, Hollow Augers, etc.
The Bramford Lock Works, Bramford, Conn., Rim and Mortise Locks, Latches, Door Knobs, etc.
The Langdon Miter Box Co., Miller's Falls, Mass., Miter Boxes with Fixed Saws.
The Davis Level and Tool Co., Springfield, Mass., Levels, Plumbs, etc.
Snell Manufacturing Co., Fiskdale, Mass., Augers, Auger-bits, Boring Machines.
Dewitt, Morrison and Kelly, Philadelphia, Pa., Augers, Auger-bits, Flour Tryers, etc.
D. K. Miller and Co., Philadelphia, Pa., Self-Locking Padlocks.
Sandusky Tool Co., Sandusky, O., Carpenters', Joiners', and Wood Turners' Tools, etc.
Blake Bros. Hardware Co., New Haven, Conn., Butts, Door Handles, Pulleys, Castors, etc.
Eagle Square Manufacturing Co., South Shaftsbury, Vt., Steel Framing Squares.
John Russell Cutlery Co., Turner's Falls, Mass., Table Cutlery, Butcher, Hunting, and Painters' Knives.
D. R. Barton Tool Co., Rochester, N. Y., Chisels, Draw Knives, Axes, Hatchets, etc.
Hotchkiss's Sons, Bridgeport, Conn., Curry-Combs, Animal Traps, Breast Drills, Saw Sets, etc.
Gaylord Manufacturing Co., Chicopee, Mass., Cabinet, Till, and Chest Locks.
Mallory, Wheeler and Co., New Haven, Conn., Rim and Mortise Locks, Latches, Padlocks, etc.
Union Manufacturing Co., New Britain, Conn., Butt Hinges.
Job T. Pugh, Philadelphia, Pa., Augers, Bits, Flour Tryers, etc.
Harrison and Kellogg, Troy, New York, Castings of Malleable Iron, and Coach Wrenches.
Stanley Rule and Level Co., New Britain, Conn., Rules, Plumbs, Levels, Planes, Plane Irons, etc.
George Selson and Co., Philadelphia, Pa., Hammers, Hatchets, Hand Saws, Coffee Mills, etc.
Stanley Works, New Britain, Conn., Cast Butts, Hoop and T-Hinges, and Wrought Hinges, etc.
Leonard, Bailey and Co., Hartford, Conn., Iron Planes, Try Squares, and Bevels.
P. and F. Corbin, New Britain, Conn., Rim and Mortise Locks, Brass and Iron Hinges, etc.
United States Shear Co., West Meriden, Conn., Cast Steel Scissors and Shears.
Miller Brothers Cutlery Co., West Meriden, Conn., Pocket Knives.
Norwalk Lock Co., South Norwalk, Conn., Locks, Bolts, Knobs, Window and Door Fittings, etc.

Henry Seymour and Co., New York, Malleable Shears and Scissors (steel lined).
A. W. Crossman and Son, West Warren, Mass., Chisels and Draw Knives, etc.
Douglass Axe Manufacturing Co., East Douglass, Mass., Axes, Hatchets, Picks, Adzes, etc.
Yerkes and Plumb, Philadelphia, Pa., Hand Axes, Hatchets, Cleavers, and Hammers.
Klein, Logan and Co., Pittsburgh, Pa., Picks, Mattocks, Stone Hammers and Sledges.
D. Maydole and Co., Norwich, N. Y., Hammers, all sizes, for all purposes.
Collins and Co., Hartford, Conn., Axes, Hatchets, Picks, Adzes, Wrenches, Cane Knives, etc.
L. Herder and Son, Philadelphia, Pa., Malleable Tailors' Scissors.
Lamson, Goodnow and Co., Sherborne Falls, Mass., Table Cutlery, Cooks' and Butcher Knives.
Trenton Lock and Hardware Co., Trenton, N. J., Rim, Mortise, Pad, Till, Car, and Safe Locks.
Ohio Tool Co., Columbus, Ohio, Planes, Bench Screws, Chisels, Draw Knives, etc.
Carr, Crawley and Develin, Philadelphia, Pa., Building and Cabinet Hardware, also Castings.
Alfred J. Colton, Philadelphia, Pa., Planes.
Union Steel Screw Co., Cleveland, O., Wood Screws made from Brass and Steel.
William Johnson, Newark, N. J., Carpenters' and Mechanics' Tools, and other Hardware.
Josiah King and Son, New York, Planes (of all varieties).
William Rose, Bro. and Co., Philadelphia, Pa., Brick, Plastering, and Moulders' Trowels.
Bailey Tool Co., New York, Iron Planes and Spoke Shaves, etc.
Wheeling Hinge Co., Wheeling, W. Va., Wrought Butts, Strap and T-Hinges, Hasps, etc.
Scovill Manufacturing Co., Waterbury, Conn., Brass Butts and Hinges, Piano Hinges, Castors, etc.
Howard W. Shipley, Philadelphia, Pa., Pocket Knives.
Middletown Tool Co., Middletown, Conn., Plane Irons.
Bevin Bros. Manufacturing Co., East Hampton, Conn., Sleigh and Hand Bells, Gongs, etc.
W. E. Barton, East Hampton, Conn., Sleigh and Hand Bells, Gongs, etc.
G. W. Nock (Penn Lock Works), Philadelphia, Pa., Padlocks and Car Padlocks.
W. T. and I. Mersereau, New York, Stair Rods, Dog Collars, and Muzzles.
American Stair Rod Co., New York, Stair Rods, Fastening Nails, etc.
J. L. Mott Iron Works, New York, Fountains, Vases, and Statuary.
A. Field and Sons, Taunton, Mass., Tacks and Nails (Iron and Copper).
American Wire and Screw Nail Co., Covington, Ky., Wire and Screw Nails.
J. F. Armbruster, Philadelphia, Pa., Casting made from Tin Waste.
Gong Bell Manufacturing Co., East Hampton, Conn., Hand Call, Sleigh, and Gong Bells.
W. A. Ives and Co., New Haven, Conn., Braces, Auger Handles, Tap Borers, Augers, etc.
A. G. Newman, New York, Buckman's Patent Spring Bolts, Automatic Window Locks, etc.
M. Gould's Sons, Newark, N. J., Stair Rods, Dog Collars, etc.

H. S. Shepardson and Co., Shelburne Falls, Mass., Gimlet Bits, Reamers, Gardeners' Sets, Gouges, etc.
W. J. Tiebout, New York, Ship Hardware (Brass and Iron).
American Screw Co., Providence, R. I., Iron, Brass, and Steel Screws, Carriage and Stove Bolts, etc.
The Meriden Cutlery Co., Meriden, Conn., Table Cutlery.
R. Heinisch Sons, Newark, N. J., Tailor Shears and Scissors.
M. C. Mayo, Boston, Mass., Boss Planes and Adjustable Plows.
Benjamin F. Badger and Son, Charlestown, Mass., Razor Strops.
John J. Tower and Co., New York, Prison Locks, Padlocks, Wrenches, Planes, etc.
J. B. Shannon, Philadelphia, Pa., Door and Window Trimmings, Gongs, etc.
Friedman and Lauterjons, New York, Razors (concave ground).
Globe Nail Co., Boston, Mass., Horseshoe Nails.
Buck Bros., Millbury, Mass., Firmer and Socket Chisels, Plane Irons, Punches, etc.
John Booth and Son, Philadelphia, Pa., Braces and Bits, Spokeshaves, Turnscrews, etc.
P. Loucutrant, Newark, N. J., Callipers, Compass, Hammers, Punches, etc.
Northfield Knife Co., Northfield, Conn., Pocket Knives.
Elmira Nobles Manufacturing Co., Elmira, N. Y., Axes, Draw Knives, Augers, etc.
A. J. Conrad, Fort Washington, Pa., Augers and Bits.
J. Wiss, Newark, N. J., Shears, Scissors, Shoe Knives, Pruning Shears, etc.
Starr Lock Works, Philadelphia, Pa., Pad and Trunk Locks, Door Springs, etc.
Barney and Berry, Springfield, Mass., Skates.
Clark's Combination Lock Co., Baltimore, Md., U. S. Sea Padlocks and Safe Deposit Lock Co.
Wilson Bohannon, Brooklyn, N. Y., Pad and Rim Locks.
Starr Tool Co., Middletown, Conn., Squares, Bevels, Callipers, Gauges, Machinists' Tools, etc.
Smith and Egge, Bridgeport, Conn., Government Padlocks, Mortise Locks, etc.
D. M. Meeker and Son, Newark, N. J., Malleable Iron and other Castings.
Charles Buck, Millbury, Mass., Firmer Chisels, Gauges, Plane Irons, Draw Knives, etc.
Romer and Co., Newark, N. J., Brass and Iron Padlocks, Rim Locks, etc.
Eagle Lock Co., Terryville, Conn., Till, Cupboard and other Locks.
J. E. Straus and Co., Philadelphia, Pa., Galvanized Hods, Chains, Nails, etc.
Will and Finck, San Francisco, Cal., Table Cutlery, etc.
Darling, Brown and Sharf, Providence, R. I., Steel Squares, Rules, etc.
Benedict and Burnham Manufacturing Co., Waterbury, Conn., Rolled Brass and Copper, Brass and Copper Wire, Chains, etc.
Holmes, Booth and Hayden, Waterbury, Conn., Brass and Copper (Rolled Wire) Tacks and Rivets, Forks and Spoons.
Lewis, Oliver and Phillips, Pittsburgh, Pa., Wagon Hardware, Hinges, Bolts, etc.
E. and G. Brooke, Birdsboro, Pa., Nails, Brads and Spikes.
Dunbar, Hobart and Co., South Abington, Mass., Tacks, Trunk and Clout Nails, Heel and Toe Plates.
Holly Manufacturing Co., Lakeville, Conn., Pocket Cutlery.
Pennsylvania Galvanic Co., Philadelphia, Pa., Galvanized Ship Hardware, etc.
Riverside Iron Works, Wheeling, W. Va., Cut Nails.
Quaker City Stencil Works, Philadelphia, Pa., Cast Letters, Signs, Badges, etc.
William E. Quigley, Waterbury, Conn., Horse Shoes.

H. Burden and Sons, Troy, New York, Horse and Mule Shoes.
Rhode Island Horse Shoe Co., Providence, R. I., Patent Hammered Machine Horse Shoes.
Aaron W. Smith, Manchester, N. H., Flexible Horse Shoes (Patent).
S. S. Putnam and Co., Neponset, Mass., Horse Nails.
National Horse Nail Co., Vergennes, Vt., Horse Nails.
Henry Disston and Sons, Philadelphia, Pa., Saws, Trowels, Plumbs, Levels, Squares, Hinges, etc.
Nicholson File Co., Providence, R. I., Files and Rasps.
S. G. Flagg and Co., Philadelphia, Pa., Steel, Gray Iron, and Malleable Castings, Pipe Fitting.
Freeman K. Sibley, Waltham, Mass., Emery and Crocus Paper.
Benjamin Forstner, Salem, Oregon, Patent Perpetual Lip Auger Bits.
Post and Co., Cincinnati, O., Padlocks, Car and Door Locks, Hinges, etc.
L. Sykes and Son, Philadelphia, Pa., Nuts, Bolts, Turn-screws, Washers, etc.
Enterprise Manufacturing Co., Philadelphia, Pa., Sad Irons, Coffee Mills, Tobacco Cutters, etc.
Eben Moody Boynton, New York, Saws in great variety (Special Patent Lightning Saws).
Baeder, Adamson and Co., Philadelphia, Pa., Sand Paper, Emery Paper, and Emery Cloth.
Stevens Patent Vise Co., New York, Parallel Vises and Planer Chucks.
Western File Works, Beaver Falls, Pa., Files and Rasps, etc.
Fisher and Norris (Eagle Anvil Works), Trenton, N. J., Anvils, Vises, etc.
McCaffrey Bros., Philadelphia, Pa., Hand-cut Files and Rasps.
G. and H. Barnett (Black Diamond Works), Philadelphia, Pa., Hand-cut Files and Rasps.
Douglass Manufacturing Co., Seymour, Conn., Chisels, Augers, Auger Bits, Draw Knives.
H. Hammond and Co., Hartford, Conn., Steel Hammers and Drop Forgings.
I. H. Sternbergh, Reading, Pa., Bolts, Nuts, etc.
A. G. Coes and Co., Worcester, Mass., Screw Wrenches.
Morse Twist Drill and Machine Co., New Bedford, Mass., Screwplates, Wrenches, Stocks, Dies, Chucks, etc.
W. C. Allison and Sons, Philadelphia, Pa., Bolts, Nuts, Screws, etc.
Hoopes and Townsend, Philadelphia, Pa., Bolts, Nuts, Screws, Rivets, etc.
Pennsylvania Tack Works, Norristown, Pa., Tacks, Shoe Nails, etc. (Copper and Iron).
American Saw Co., Trenton, N. J., Circular Mill, Cross-cut Saws.
Edward H. Knight, Philadelphia, Pa., Patent Wrench (adjustable).
J. M. Carpenter, Pawtucket, R. I., Stocks with Taps and Dies.
S. H. Quint and Co., Philadelphia, Pa., Stencils, Pattern Letters, etc.
Clough and Williamson, Newark, N. J., Wire Corkscrews.
W. F. Palmer, San Francisco, Cal., Axes, Hatchets, Adzes, Chisels, Draw Knives.
Yale Lock Manufacturing Co., Stamford, Conn., Time, Safe, Door, and other Locks.
Hall's Safe and Lock Co., Cincinnati, O., Safes.
Herring and Co., New York, Fire and Burglar Proof Safes.
Beard and Bro., St. Louis, Mo., Fire and Burglar Proof Safes.
Terwilliger and Co., New York, Fire and Burglar Proof Safes.
J. Watson and Son, Philadelphia, Pa., Bankers', Office, and House Safes.
Marvin Safe and Scale Co., New York, Fire and Burglar Proof Safes, and Combination Locks.
Farrell and Co., Philadelphia, Pa., Safe Deposit, Bankers', and Office Safes.
Sargent and Greenleaf, New York, Combination, Time, and other Locks.

New Britain Safe and Lock Co., New Britain, Conn., Bank and Deposit Safes, Drawer, and other Locks.
Valentine and Butler, New York, Fire and Burglar Proof Safes.
Corliss Safe Co., Providence, R. I., Burglar Proof Safes.

GROUP XVI.

MILITARY AND SPORTING ARMS—WEAPONS, ETC.

South Boston Iron Co., Boston, Mass., Butler Projectiles and Cluster Shot.
Wm. H. Horstmann and Sons, Philadelphia, Pa., Swords, Regalia, etc.
Ames Manufacturing Co., Chicopee, Mass., Swords and Scabbards.
United States Cartridge Co., Lowell, Mass., Military Cartridges.
Smith and Wesson, Springfield, Mass., Smith and Wesson Revolving Pistols.
Providence Tool Co., Providence, R. I., Peabody-Martin Rifle.
Winchester Repeating Arms Co., New Haven, Conn., Metallic Cartridges for Small Arms.
E. Remington and Sons, Ilion, N. Y., Fire Arms and Ammunition.
Merwin, Hulbert and Co., New York City, Pocket Revolvers.
Joy, Bickford and Co., Simsbury, Conn., Safety Fuse for Blasting.
Clark and Sneider, Baltimore, Md., Breech-Loading Guns.
Frank Wesson, Worcester, Mass., Breech-Loading Sporting and Pocket Rifle.
Whitney Arms Co., Whitneyville, Conn., Sporting Rifles on Whitney System.
Providence Tool Co., Providence, R. I., Long Range Rifle.
William Wurfflein, Philadelphia, Pa., Saloon Rifles and Targets.
Sharp's Rifle Co., Bridgeport, Conn., Breech-Loading Hunting Rifle.
Thomas M. Sparks, Philadelphia, Pa., Drop and Mould Shot.
Henry D. Harvey, Baltimore, Md., Drop and Moulded Shot.
E. Remington, Ilion, N. Y., Breech-Loading Guns, and Target Rifle.
Chas. Parker, Meriden, Conn., Breech-Loading Guns.
I. Stevens and Co., Chicopee Falls, Mass., Breech-Loading Guns.
John Krider, Philadelphia, Pa., Breech-Loading Guns.
C. J. Stoddard, Washington, D. C., Cartridge-Loading Implement.
Colt's Patent Fire-Arms Manufacturing Co., Hartford, Conn., Colt's Revolver.
Union Metallic Cartridge Co., Bridgeport, Conn., Metallic Cartridges for Military Purposes.
Richard J. Gatling, Hartford, Conn., The Gatling Gun.
South Boston Iron Co., Boston, Mass., Condensed Bronze Cannon and Howitzer.
Evans Rifle Mnfg. Co., Mechanic Falls, Me., Evans's Magazine Gun.

GROUP XVII.

CARRIAGES, VEHICLES, AND ACCESSORIES.

L. P. Tibbals, New York City, Children's Carriages.
Cole and Ballard, Newark, N. J., Children's Carriages.
Montpelier Manufacturing Co., Montpelier, Vt., Children's Carriages.
Paris Hill Manufacturing Co., Paris Hill, Me., Children's Sleds and Wagons.
Richardson, McKee and Co., Boston, Mass., Children's Carriages.
J. A. Conover, New York City, Children's Carriages and Wooden Horses.
F. Hermann Jury, New York City, Children's Carriages.
Geo. P. Steinbach, Baltimore, Md., Children's Carriages.
T. A. Yost, Philadelphia, Pa., Children's Carriages and Velocipedes.
S. N. Brown and Co., Dayton, O., Wheels and Wheel Stock, etc.
Hoopes Bros. and Darlington, West Chester, Pa., Wheels, Wheel Stock, and Bent Woods.
Dann, Bros. and Co., New Haven, Conn., Buggy Bodies and Seats.
New Haven Wheel Co., New Haven, Conn., Wheels and Wheel Stock.
Phineas Jones and Co., Newark, N. J., Wheels and Bent Woods.
Strahorn, Pierson and Co., Toughkenamon, Pa., Wheels and Wheel Stock.
Union Co. Manufacturing Co., Elizabeth, N. J., Wheel Stock.
Philip Lebzelter, Lancaster, Pa., Shafts.
Jno. G. Davis and Son, Philadelphia, Pa., Wheels and Wheel Stock.
Jno. Urmston, Rahway, N. J., Hubs.
Jacob A. Leippe, Lancaster, Pa., Bent Woods for Rims and Shafts.
Samuel G. Read, Wellesley, Mass., Apparatus for Heating Tires by means of Gas Jets.
Samuel Reynolds and Co., Pittsburgh, Pa., Saddlery Hardware, etc.
J. Lyman Wilder, Hartford, Conn., Bridle Fronts, Saddle Pads, etc.
R. F. Wilson, Milton, Pa., Leather Fly-Nets.
A. S. Jenks, Philadelphia, Pa., Horse Bits.
Thos. Moore, New York City, Horse Collars.
Jno. C. Lighthouse, Rochester, N. Y., Horse Collars.
Aug. Buerman, Newark, N. J., Saddlery and Harness Hardware.
Kessler and Bros., Philadelphia, Pa., Wooden Hames.
Ch. M. Theberath and Bro., Newark, N. J., Saddlery Hardware, etc.
Peel and Elster, Springfield, O., Dasher Moulding of Steel, black or plated.
Richard P. Wheelen, New York City, Star Bridle Bit.
Chr. Sippel, Newark, N. J., Fancy Handles for Carriages.
Peters and Calhoun Co., Newark, N. J., Harness, Saddles, etc.
P. McFadden, Philadelphia, Pa., Harness.
A. Albright, Newark, N. J., Hard Rubber coated Harness, etc.
How, Currie and Co., New York City, Single and Double Harness.
Weaver and Bardall, Pittsburgh, Pa., Whips.
Sallada and Pearson, Philadelphia, Pa., Whips.
American Whip Co., Westfield, Mass., Whips.
Crane and Co., Newark, N. J., Harness and Saddlery Hardware.
George Motts, Washington, D. C., Harness.
C. M. Moseman and Co., New York City, Fire Engine Harness.
Samuel R. Phillips, Philadelphia, Pa., Harness.
H. G. Haedrich and Son, Philadelphia, Pa., Harness.
James R. Hill and Co., Concord, N. H., Harness.
Fish Bros., Racine, Wis., Farm Wagons.

Jno. Beggs and Son, Philadelphia, Pa., Wagons.
C. Shanz and Co., Philadelphia, Pa., Express Wagons.
Geo. Lengert and Son, Package Delivery Wagons.
Peter Shuttler, Chicago, Ill., Wagons.
W. T. and T. H. Rogers, Quincy, Ill., Farm Wagons.
Wilson, Childs and Co., Philadelphia, Pa., Wagons.
Fulton, Walker and Co., Philadelphia, Pa., Express Wagons.
Jacob Sebastian, New York City, Express Wagons.
Winchester and Partridge, Whitewater, Wis., Plantation and Freight Wagons.
Joseph Kieser, New York City, Brewers' Wagons.
Abbott Downing Co., Concord, N. H., Coaches.
Studebaker Bros. and Co., South Bend, Ind., Wagons.
H. Rosenthal, New York City, Horse Brushes.
C. S. Osborne and Co., Newark, N. J., Saddlers' and Harness-makers' Tools.
H. F. Osborne, Newark, N. J., Machine for Splitting Leather.
Chris. Kunzig, Philadelphia, Pa., Close-plated Carriage Ware.
Welsh and Lea, Philadelphia, Pa., Wrought Iron Bolts.
W. L. Wenkenbach, Philadelphia, Pa., Express Wagon.
Chas. Rauch, Cleveland, O., Ice Wagon.
White Manufacturing Co., Bridgeport, Conn., Carriage Lamps, etc.
Hayden and Smith, Auburn, N. Y., Carriage Hardware.
Topliff and Ely, Elyria, O., Flat Irons, Springs, etc.
Samuel E. Tompkins and Co., New York, Plated Coach and Harness Trimmings.
D. Dalzell and Sons, South Egremont, Mass., Carriage Axles.
Sheldon and Co., Auburn, N. Y., Carriage Axles.
M. Seward and Son, New Haven, Conn., Axle-Tree Clips.
Wm. Youle, Norwalk, Conn., Hearses.
Chas. Behlen, Cincinnati, O., Child's Hearse.
Jas. Cunningham and Co., Rochester, N. Y., Carriages.
A. McLear, West Chester, Pa., Carriage.
Hetfield and Jackson, Rahway, N. J., Wagons.
F. C. Gilman, Montpelier, Vt., Sulky and Wagon.
Manville and Co., New Haven, Conn., Carriages.
Jas. Gould and Co., Albany, N. Y., Sleighs.
Henry Killom and Co., New Haven, Conn., Carriages.
Haskell Bros., Philadelphia, Pa., Wagons.
Jas. Hall and Son, Boston, Mass., Buggy and Sleigh.
R. M. Stiver and Co., New York, N. Y., Wagon and Sleigh.
Chas. S. Caffrey, Camden, N. J., Carriages.
Jos. Beckhaus, Philadelphia, Pa., Carriages.
Pray Bros., Boston, Mass., Carriages.
J. B. Brewster and Co., New York City, Carriages.
Wood Bros., New York, Carriages.
W. D. Rodgers and Co., Philadelphia, Pa., Carriages.
J. V. Waldron and Bro., New York City, Crests, Coats of Arms, etc.
Felton, Rau and Sibley, Philadelphia, Pa., Carriage Varnishes.
C. C. Phillips and Co., Philadelphia, Pa., Carriage Varnishes.
D. Rosenberg and Sons, New York City, Carriage Varnishes.
Valentine and Co., New York City, Carriage Varnishes.
H. D. Smith and Co., Plantsville, Conn., Carriage Hardware.
Philip Ketterer, New York City, Package Wagon, etc.
C. T. Raynolds and Co., New York City, Carriage Varnishes.
E. Smith and Co., New York City, Carriage Varnishes.

GROUP XVIII.

RAILWAY PLANT, ROLLING STOCK, ENGINES, ETC.

Brooks Locomotive Works, Dunkirk, N. Y., Locomotive and Tender.
Porter, Bell and Co., Pittsburgh, Pa., Locomotive Engine.
Burnham, Parry, Williams and Co., Philadelphia, Pa., Locomotives.
Dickson Manufacturing Co., Scranton, Pa., Passenger and Mine Engines.
Philadelphia and Reading R. R. Co., Reading, Pa., Locomotives.
Rogers Locomotive and Machine Works, Paterson, N. J., Wood-burning Locomotives.
Danforth Locomotive and Machine Co., Paterson, N. J., Locomotive and Plantation Engine.
New York Central R. R. Co., New York, Postal Car.
Pennsylvania R. R. Co., Altoona, Pa., U. S. Postal Car.
Creamer and Co., New York City, Car Fittings, Trimmings, etc.
Baker, Smith and Co., New York, Railway Car Heater.
Post and Co., Cincinnati, Ohio, Car Fittings, Trimmings, etc.
Pullman Palace Car Co., Chicago, Ill., Hotel, Parlor, and Sleeping Car.
Jackson and Sharp Co., Wilmington, Del., Passenger, Boudoir, and Library Cars.
Wason Manufacturing Co., Springfield, Mass., Passenger Car.
Westinghouse Air-Brake Co., Pittsburgh, Pa., Westinghouse Automatic Air Brake.
Union Car Spring Co., Conn., Car Springs.
Hamilton Steeled Wheel Co., Philadelphia, Pa., Chilled Car Wheels.
Davenport, Fairbain and Co., Erie, Pa., Chilled Cast-Iron Wheels.
Nichols, Pickering and Co., Philadelphia, Pa., Steel Springs.
McKee and Fuller, Catasauqua, Pa., Railroad and Mine Car Wheels.
Washburn Car Wheel Co., Hartford, Conn., Steel Tired Car Wheels.
Cayuta Wheel and Foundry Co., Waverly, N. Y., Chilled Wheels.
Barnum, Richardson and Co., Salisbury, Conn., Cast Chilled Car Wheels.
Baltimore Car Wheel Co., Baltimore, Md., Chilled Cast-Iron Wheels and Tires.
Culmer Spring Co., Pittsburgh, Pa., Spiral Springs.
A. French and Co., Pittsburgh, Pa., Railway Elliptic Springs.
N. and A. Middleton and Co., Philadelphia, Pa., Godley's Improved Spiral Springs.
Ramapo Wheel and Foundry Co., Ramapo, N. Y., Chilled Cast-Iron Wheels.
American Paper Car Wheel Co., Hudson, N. Y., Wheels of Compressed Paper.
A. Whitney and Sons, Philadelphia, Pa., Chilled Cast-Iron Wheels.
Saml. Louis Harrison, San Francisco, Cal., Railroad Axle-independent Wheels.
Pennsylvania Steel Co., Philadelphia, Pa., Railway Switches.
Wm. Wharton, Jr., Philadelphia, Pa., Bessemer Steel Grooved Railway Curves, etc.
Wharton Railway Switch Co., Philadelphia, Pa., Safety Switch with Unbroken Track.
Pennsylvania R. R. Co., Altoona, Pa., Railroad Track.
John Stephenson Co., New York, Street Tramway Cars.
J. M. Jones and Co., West Troy, N. Y., Street Car for Two Horses.
J. G. Brill and Co., Philadelphia, Pa., Street Cars for Horses.

S. G. Reed, Boston, Mass., Apparatus for Heating Locomotive Tires.
Mason Locomotive Works, Taunton, Mass., Locomotive Engine.
Rosseau Railway Signal Co., New York, Electric Railway Signal.

GROUP XIX.

VESSELS, AND APPARATUS OF TRANSPORTATION.

Wm. Walls' Sons, New York City, American and Russian Hemp Rigging.
American Dredging Co., Philadelphia, Pa., Dredging Machine.
Wm. Lyman, Middlefield, Conn., Patent Bow-facing Rowing Gear.
American Ship Windlass Co., Providence, R. I., Windlass and Capstan Models.
Fredk. L. Stacy, Gloucester, Mass., Steering Wheel.
R. J. Dodge, Boston, Mass., Oars.
Irving Grinnell, New Hamburg, N. Y., Ice Yacht.
Edw. L. Perry, New York City, Monitor Life-Saving Raft.
C. and R. Poillon, New York City, Model of Schooner Yacht "Sappho."
A. H. Hark and Co., New York City, Flax Twines.
B. Mills and Son, Jersey City, N. J., Oakum.
Lawrence Waterbury and Co., New York City, Manilla Rope.
John T. Bailey and Co., Philadelphia, Pa., American Hemp, Twine, Cords, etc.
John A. Roebling's Sons and Co., Trenton, N. J., Wire Ropes.
Bradley and Co., Philadelphia, Pa., Chain Cable, Crane Chains, etc.
F. E. Sickels, Application of Steam to Steering Ships.
E. Waters and Sons, Troy, N. Y., Paper Boats.
Wm. H. Mallory, Bridgeport, Conn., Steering Screw Propellers.
N. Y. Safety Steam Power Co., New York city, Steam Yacht.
Doughty and Kapella, Philadelphia, Pa., Steam Yacht.
Wm. W. Bates, Chicago, Ill., Printed Rules, Inspection of Vessels.
J. Henry Lears and Co., Boston, Mass., Model of Sailing Ship "New Era."
Wm. Cramp and Son, Philadelphia, Pa., Steamship Model and Elements of Stability.

GROUP XX.

MOTORS, HYDRAULIC AND PNEUMATIC APPARATUS.

York Manufacturing Co., York, Pa., Turbine Water Wheels.
Poole and Hunt, Baltimore, Md., Turbine Water Wheels and Gearing.
Wm. F. Mosser and Co., Allentown, Pa., Turbine Water Wheel.
Hartford Pump Co., Hartford, Conn., Compressed Air Pump.
Bodine Manufacturing Co., Mt. Morris, N. Y., Brass Turbine Water Wheel.
Nathan and Dreyfus, New York, N. Y., Self-Acting Lubricator.
Chalmers Spence Co., Philadelphia, Pa., Composition Boiler and Steam Pipe Covering.
Gun Powder Pile-Driving Co., Philadelphia, Pa., Gun Powder Pile-Driver.

Alexander Bros. Packing Co., Philadelphia, Pa., Leather Belting.
W. H. King, Soap Press.
Louis Falk, Morrisania, N. Y., Portable Fire Escape.
Hubbard and Co., Steam Pipe.
Hydraulic and Drainage Co., Steam Pressure and Vacuum Pumps.
Babson and Dwight, New York, Self-Regulating Fire Escape.
Chard and Howe, New York, N. Y., Lubricating Cup and Compound.
Branch, Crookes and Co., St. Louis, Mo., Adjustable Countershaft, Hanger and Belt-Lightener.
George V. Cresson, Philadelphia, Pa., Pulleys, Hangers, Couplings, Wall Boxes, etc.
Anton Heim, New York, N. Y., Leather Belting.
John A. Roeblings Sons and Co., Trenton, N. J., Wire Rope, Rigging, etc.
Page Belting Co., Concord, N. H., Leather Beltings.
E. B. Richie, Leather Beltings.
George C. Howard, Philadelphia, Pa., Belt Gearing for Sewing Machines.
J. A. Grosvenor, Jersey City, N. J., Pulsometer Steam Pump.
George S. Follensbee, Lewistown, Me., Double Propeller Pump.
Wm. D. Hooker, Dedham, Mass., Directing Acting Steam Pumps.
W. and B. Douglass, Middletown, Conn., Hand and Power Pumps, Hydraulic Rams, etc.
Adam Carr, New York, N. Y., Steam Pump, Steam Radiator, Hoisting Engines, Condenser.
Rumsey and Co., Seneca Falls, N. Y., Pumps, Hydraulic Rams.
Union Mfg. Co., New Britain, Conn., Iron and Brass Cistern, Force, Yard Drive, Well Garden Engines, Boiler Pumps and Rams.
Hubbard and Aller, Brooklyn, N. Y., Steam Pumps.
Aquometer Steam Pump Co., Philadelphia, Pa., Steam Pumps.
Wm. E. Kelley, New Brunswick, N. J., Steam Pumps.
Burgess, A., and Son, Leather Belting.
Poole and Hunt, Baltimore, Md., Pulleys, Feed, Water Heater.
Mason, Volney, W. and Co., Providence, R. I., Friction Clutches and Pulleys, etc.
Charfield, Underwood and Co., New York, N. Y., Angular Belting.
John Charlton, Philadelphia, Pa., Clamp Coupling for Shafts, with Pulley.
Chas. A. Schieren, New York, N. Y., Leather Belting.
Otis Bros. and Co., New York, N. Y., Passenger Elevator, etc.
Rodney Hunt Machine Co., Orange, Mass., Double Acting Turbine Water Wheel.
John T. Noye and Son, Buffalo, N. Y., Turbine.
W. Youngs, Easton, Pa., Deep Well Pump and Standards.
Ewart Mfg. Co., Chicago, Ill., Detachable Drive Chain.
Hilles and Jones, Wilmington, Del., Direct Acting Steam Pumps.
Valley Machine Co., Easthampton, Mass., Bucket Plunge Steam Pumps.
Silsby Manufacturing Co., Seneca Falls, N. Y., Rotary Steam Pump.
Thos. J. Rorer, Philadelphia, Pa., Leather Belting.
B. F. Sturtevant, Boston, Mass., Fan Blowers.
Blake Hose Co., Boston, Mass., Fire Hose.
Henry P. M. Birkenbine, Philadelphia, Pa., Fire Protection Apparatus.
Stow and Burnham, Philadelphia, Pa., Flexible Shaft and Tools, and Machine Operated, etc.
John Woodvill, Washington, Ind., Garden Engine, Fire Extinguisher, etc.
Sweetland, Pontiac, Mich., Hod Elevator.
C. Schanz, Philadelphia, Pa., Hook and Ladder Truck.
T. Wilbraham and Bros., Philadelphia, Pa., Pressure Blowers, Gas Exhauster.
Goulds Manufacturing Co., Hand and Power Pumps, Hydraulic Rams.

B. E. Lehman, Bethlehem, Pa., Gauge Cocks, Water Gauges, Oil Cups, Gate Valves.
Erie City Iron Works, Erie, Pa., Stationary and Horizontal Engine.
Frick and Co., Waynesborough, Pa., Portable Farm and Stationary Engines.
Henry Q. Hawley, Albany, N. Y., Gas Heating and Cooking Furnaces.
Wells Balance Engine Co., New York, N. Y., Double Piston Engine.
Exeter Machine Works, Boston, Mass., Steam Boiler.
Edward Brown, Philadelphia, Pa., Pyrometers for Blast Furnaces, etc.
Shapley and Wells, Binghamton, N. Y., Steam Engines and Boilers.
Utica Steam Gauge Co., Utica, N. Y., Gauges, Counters, and Gauge Testers.
Ryder Reciprocal Grate Association, Taunton, Mass., Reciprocal Grates.
Harrison Boiler Works, Philadelphia, Pa., Sectional Safety Steam Boiler.
John A. Reed, New York, Tapering Corrugated Sectional Boilers.
L. Sterberger, Philadelphia, Pa., Safety Screw Steam Platform Elevator.
Sierer Lake Co., Boston, Mass., Self-Lubricating Steam Packing.
Peck Bros. and Co., New Haven, Conn., Hose Nozzles and Brass Water Cocks.
J. R. Ritter, Hydraulic Hoisting Apparatus.
W. A. Rogers for E. Lyon, Hydraulic Jacks.
Richard Dudgeon, New York, N. Y., Hydraulic Jacks and Punches.
Vulcanized Fibre Co., Wilmington, Del., Pipes.
Melvin Stephens, New York, N. Y., Cement-Lined Wrought-Iron Water Pipe.
Walworth Manufacturing Co., Walworth Manufacturing Co., Steam Cocks and Valves.
William Radde, New York, N. Y., Glass-Lined Iron Pipes and Fittings.
Tarecki Manufacturing Co., Erie, Pa., Valves and Cocks.
Chapman Valve Manufacturing Co., Boston, Mass., Water, Gas, and Steam Valves.
Jesse W. Starr and Son, Camden, N. J., Gas and Water Pipes, Stop Valves, etc., Fire Hydrant Castings.
James Flower and Brother, Detroit, Mich., Stop Valves, Fire Hydrants.
Mohawk and Hudson Manufacturing Co., Waterford, N. Y., Straightway Valves, Fire and Garden Hydrants.
L. Button and Son, Waterford, N. Y., Steam Fire Engine.
Otto Zwietusch, Milwaukee, Wis., Chem. Fire Extinguishers, Soda Water Apparatus, Glass Faucets.
Charles Lippincott and Co., Philadelphia, Pa., Apparatus for Manufacturing and Dispensing Soda Water.
John Matthews, New York, N. Y., Apparatus for Making, Bottling, and Dispensing Soda Water.
Clapp and Jones Manufacturing Co., Hudson, N. Y., Piston Steam Fire Engines.
A. F. Spawn and Co., New York, N. Y., Chem. Fire Engine, Hook and Ladder Truck, Firemen's Supplies.
Samuel Y. Greer, Philadelphia, Pa., Hose Carriage, Leather Fire Hose.
Champion Fire Extinguish. Co., Louisville, Ky., Chemical Engines, Hook and Ladder Trucks.
Babcock Manufacturing Co., New York, N. Y., Chemical Engines and Attachments.
Wm. K. Platt & Co., Philadelphia, Pa., Fire Extinguishers.
Albright and Stroh, Mauch Chunk, Pa., Fire Plugs.
White, Clark and Co., Baldwinsville, N. Y., Centrifugal Pumps.
C. W. King, Boston, Mass., Force and House Pumps.
B. F. Biggs and Wells, La Fayette, Ind., Wooden Lifting and Suction Pumps.

G. H. and F. M. Roots, Connersville, Ind., Blowers, etc.
Coffin and Woodward, Boston, Mass., Ship Pumps.
James Eccles, Philadelphia, Pa., Screw Power Press, Drawbridge Pivot, etc.
R. T. H. Stillman, Philadelphia, Pa., Water Gates and Fire Hydrants.
Ludlow Valve Manufacturing Co., Troy, N. Y., Sliding Stop Valves, Fire Hydrants.
Merchant and Co., Philadelphia, Pa., Seamless Brass and Copper Tubes.
Cooper, Jones and Cadbury, Philadelphia, Pa., Brass Valves, Cocks, etc.
Sample, McElroy and Co., Keokuk, Iowa, Semi-Portable Steam Engines and Boilers.
U. S. Hoisting and Conveying Co., New York, N. Y., Hoisting and Conveying Apparatus.
Lane and Bodley, Cincinnati, O., Steam Engine for Driving Saw-Mill.
A. D. Puffer, Boston, Mass., Beer, Soda, and Mineral Apparatus.
Edson Gauge Manufacturing Co., New York, N. Y., Gauges, Alarms, etc.
Samuel S. Bent, New York, N. Y., Shaking Grate Bars for Steam Boilers.
Chas. W. Ervien and Bros., Philadelphia, Pa., Horizontal and Vertical Steam Engines.
W. H. Harrison, Philadelphia, Pa., Double-acting Two Valve Pumps.
Bolen, Crane and Co., Newark, N. J., Compound Hydraulic Press.
John F. Taylor, Charleston, S. C., Steam and Hydraulic Cotton Press.
Haskins Steam Engine Co., Fitchburg, Mass., Interchangeably Made Engines.
Armstrom Heater Manufacturing Co., Toledo, O., Heater, Lime Extractor, etc.
Ward B. Snyder, New York, N. Y., Steam Engines and Boilers.
W. P. Powers, Wire Belting.
Springfield Iron Works, Springfield, Mass., Turbine Water Wheel.
Fales, Jenks and Co., Pawtucket, R. I., Turbine.
Otis, Bros. and Co., New York, N. Y., Furnace Engine for Hoisting Purposes.
Nelson A. Twist, New Haven, Conn., Vertical Engine, Yacht Engine.
Jacob Naylor, Philadelphia, Pa., Engines, etc.
Buckeye Engine Co., Ohio, Automatic Cut-off and Throttling Steam Engines.
Geo. J. Wardwell, Rutland, Vt., Valveless Steam Engines.
C. C. Klein, Philadelphia, Pa., Eccentric Piston Engines.
Ledgerwood Mfg. Co., New York, N. Y., Rotary Hoisting and Elevating Engines.
Frederick Spiess, New York, N. Y., Steam Pump (Behren's).
Hartford Steam Boiler Inspection and Insurance Co., Hartford, Conn., Scale and Defective Iron from Steam Boilers, etc.
L. J. Knowles, Steam Pumps.
H. R. Worthington, New York, N. Y., Steam Pumping Engines.
Toledo Pump Co., Toledo, O., Wooden Pumps.
National Tube Works, Boston, Mass., Iron Boiler Tubes, Hydraulic, Steam, Water Pipes.
T. F. Rowland, Greenpoint, N. Y., Pillar Beam Engine.
The Wm. Cramp and Sons Steam Engine Building Co., Philadelphia, Pa., Single and Compound Marine Engines.
Wissner and Strong, Pittsburgh, Pa., Steam Engine, with Appliances.
W. Volney Mason and Co., Providence, R. I., Elevator Hoisting Machine and Safety Platform.
S. S. Williams and Co., Philadelphia, Pa., Hod Elevator.
Joseph Goldmark, New York, N. Y., Safety Elevators for Hotels, etc.
Evans, Dalzell and Co., Pittsburgh, Pa., Boiler, Oil Well, Artesian, and Hydraulic Tubing, etc.

Warren Foundry Machine Co., Phillipsburg, N. J., Gas and Water Pipes.
Bridgewater Iron Co., Bridgewater, Mass., Seamless Copper and Brass Tubes.
Gloucester Iron Works, Philadelphia, Pa., Cast Iron Pipes, Fire Hydrants, Stop Valves.
George C. Howard, Philadelphia, Pa., Hoisting Machine.
Exeter Machine Works, Boston, Mass., Pressure Blowers, Fan Blowers, and Exhaust Fans.
Francis Murphy, Streator, Ill., Ventilating Apparatus for Mines, Tunnels, etc.
I. P. Morris and Co., Philadelphia, Pa., Blast Engine.
Heald, Sisco and Co., Centrifugal Pumps.
Wm. P. Uhlinger, Centrifugal Hydro-Extractor.
Holloway, Baltimore, Md., Chemical Fire Engine.
Henry Chapman, Centrifugal Water Extractor.
David N. Low, Gloucester, Mass., Ice Crushers.
Andrew O'Niel, Ansonia, Conn., Pipes (Water and Gas).
Dennis Long and Co., Louisville, Ky., Iron, Gas, and Water Pipe.
Ferrel and Jones, Combined Engine and Pipe.
F. L. and A. Speiss, New York, N. Y., Belt Clamps.
Edward Purvis, Automatic Steam Valve.
Thos. C. Basshor and Co., Baltimore, Md., Automatic Relief valve for Steam Fire Engine.
Allison and Bannan, Port Carbon, Pa., Air-Compressing Engines.
W. Barnet LeVan, Philadelphia, Pa., Damper Regulator and Grate Bars.
John P. Gruber, Jersey City, N. J., Liquid Elevator and Filtering Apparatus.
Nye, Gourlay and Co., Chicago, Ill., Steam Vacuum Pumps.
Conde and Co., Philadelphia, Pa., Steam Pumping Engine.
Hydrostatic and Hydraulic Co., Philadelphia, Pa., Compound Propeller Pump for Quarries, etc.
Niagara Steam Pump Works, Brooklyn, N. Y., Direct Acting Steam Pumps.
Bagley and Sewall, Watertown, N. Y., Metal Force Pumps with Self-Packing Joints.
Abraham Huffer, Hagerstown, Md., Automatic Steam Vacuum Pumps.
Protective Fire Apparatus Co., New York, N. Y., Protective Fire Apparatus.
Shire Governor Co., Bethlehem, Pa., Governor and Motor.
Tupper, W. W., and Co., New York, N. Y., Grates for Steam Boiler Furnaces.
J. W. Connery, Philadelphia, Pa., Concave Calking for Steam Boilers, etc.
L. B. Tupper, New York, N. Y., Furnace Grate Bars.
Byrns and Bryan, New York, N. Y., Beer Pumps and Cooling Apparatus.
Rumsey and Co., Seneca Falls, N. Y., Hand Fire Engine.
Wannalansett Manufacturing, Boston, Mass., Linen Fire Hose, Hose Couplings, etc.
Robertson, John and Co., Brooklyn, N. Y., Hydraulic Pumps and Presses.
Thomas Ross, Rutland, Vt., Steam Crane.
Yale Lock Manufacturing Co., Stamford, Conn., Safety Hoisting Machines, etc.
James Bates, Baltimore, Md., Hand Elevators.
Thomas Foulds, Jr., Kevorton, Pa., Condenser.
Stillman B. Allen, Boston, Mass., Governor.
A. H. Woodruff, Lansing, Iowa, Gear for Locomotive and Propeller Engines, etc.
J. B. Davis, Hartford, Conn., Feed, Water Heater and Purifier.
H. F. Haurey, Newark, N. J., Flue and Tube Brushes.
Joseph Woodruff, Rahway, N. J., Balanced Steam Damper Regulator.
Phillips and Coats, St. Louis, Mo., Patent Sectional Hydrant.
G. W. and H. W. Middleton, Philadelphia, Pa., Iron Tubes, Brass Cocks and Valves.

Schutte and Gehring, Philadelphia, Pa., Koerling's Patent Steam Jets.
Benedict and Burnham, Waterbury, Conn., Copper and Brass Tubes, Seamless.
A. B. Cook and Co., Erie, Pa., Adjustable Dead Pulleys, etc.
Boomer and Boschert Press Co., New York, N. Y., Press.
H. and F. Blandy, Zanesville, O., Engines.
E. D. Learitt, Cambridgeport, Mass., Drawing of Lawrence Pumping Engines.
New York Safety Steam Power Co., New York, N. Y., Engines, and Engine and Boiler.
R. O. Moorhouse and Co., Philadelphia, Pa., Steam Engines with Gear, etc.
Cornell University Machine Shop, Ithaca, N. Y., Steam Engine.
H. Belfield and Co., Philadelphia, Pa., Valves, Cocks, Gauges, etc.
Erie City Iron Works, Erie, Pa., Horizontal Tubular Engine.
Howard Safety Boiler Manufacturing Co., Boston, Mass., Safety Sectional Wrought Iron 9-in. Tube Boiler.
Morris, Tasker and Co., Philadelphia, Pa., Wrought Iron Tubes, Tools, and Brass Work.
Silsby Manufacturing Co., Seneca Falls, N. Y., Rotary Steam Fire Engine, Hose Carts.
Burleigh Rock Drill Co., Fitchburg, Mass., Air Compression.
Union Rock Drill Co., New York, N. Y., Air Compressing Engine.
N. F. Burnham, York, Pa., Turbine.
John Birkenbine, Philadelphia, Pa., Treble Fire Hydrant.
S. S. Jamison, Saltsburg, Pa., Steam Water Injector.
A. B. Jones, Steam Traps.
Chas. W. Hunt, Broadway, N. Y., Coal Hoist and Railway.
I. and G. Firmenich, Buffalo, N. Y., Boiler.
Copeland and Bacon, New York, N. Y., Reversible Winding Engine, and Differential Geared Hoisting Engine.
Laland and Grosjeans Manufacturing Co., New York, N. Y., Seamless Soda Water Fountains and Generators.
Edward Sawyer, Drawings of Boyden Fanmeyron Turbine.
Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn., Steam Engines, Steam Cylinder in Boiler, etc.
Michael Hey, Philadelphia, Pa., Beer Pumps with Bar Fixtures.
Albert G. Busby, Philadelphia, Pa., Water Motor from Hydrant Pressure.
Abraham N. Wolf, Allentown, Pa., Turbine Water Wheel and Flume.
James Leffel and Co., Springfield, O., Double Turbine Water Wheel.
Stillwell and Bierce Manufacturing Co., Dayton, O., Double Turbine Water Wheel.
Stout, Mills and Temple, Dayton, O., Turbine Wheels.
W. W. Grier, Hulton, Pa., Hydraulic Ram Sentinel.
Lane Manufacturing Co., Montpelier, Vt., Turbine.
William Sellers and Co., Philadelphia, Pa., Injector.
William Sellers and Co., Philadelphia, Pa., Shafting, Couplings, and Hangers.
Stokes and Parrish, Philadelphia, Pa., One Passenger Elevator of the Largest Class.
Baird and Huston, Philadelphia, Pa., Horizontal Tubular Boiler.
Stillwell and Bierce Manufacturing Co., Dayton, O., Lime Extracting Heater and Filter.
Jones and Laughlins, Pittsburgh, Pa., Shafting, Hangers, Pulleys, etc.
G. F. Blake, Steam Pumps.
Weimar Machine Works, Lebanon, Pa., High Speed Blowing Engine.
Geo. R. Kirk, Philadelphia, Pa., Brass Valves and Cocks.
Woodruff and Beaumont, Kankakee City, Ill., Stop Valve.

Lonergan and McBride, Philadelphia, Pa., Oil Cups and Lubricators.
Mrs. Scott Uda, New York, N. Y., Aerial Ladder.
Cook and Pulrer, New York, N. Y., Lubricating Cups.
Peet Valve Co., Boston, Mass., Brass and Iron Steam Valves.
J. B. Hoyt and Co., New York, N. Y., Leather Belting.
P. Jewell and Son, Leather Belting and Metallic Tipped Laces.
H. L. Fairbrother and Brother, Pawtucket, R. I., Leather Belting.
G. S. Fales, Leather Belt.
Pancoast and Maule, Philadelphia, Pa., Steam and Hot Water Apparatus, Radiators.
Charles R. Ellis, New York, N. Y., Hot Water Apparatus for Heating Buildings.
Asbestos Patent Fibre Co., Philadelphia, Pa., Packing.
Th. H. Peto, Philadelphia, Pa,, Hook and Ladder Truck, Hose Carriage.
T. R. Pickering, Portland, Conn., Governors for Steam Engines.
Lane Brothers, Millbrook, Dutchess Co., N. Y., Hydraulic Motor for Sewing Machines.
Griffith and Wedge, Zanesville, O., Vertical Portable Engine.
Hartford Foundry and Machine Co., Hartford, Conn., Steam Engine.
S. S. Vail, Keokuk, Iowa, Boiler (steam).
Bowser, Prentiss and Fall, Fort Wayne, Ind., Steam Engine.
Hampson, Whitehill and Co., Steam Engines.
Baird and Huston, Philadelphia, Pa., Steam Engine.
William Burnett, Baltimore, Md., Lubricating Apparatus for Steam Engines.
Paulding, Kemble and Co., West Point, N. Y., Model of Davey Pumping Engine.
Henry C. Meyer and Co., New York, N. Y., Faucets and Anti-Freezing Hydrants.
Cooper, Jones and Cadbury, Philadelphia, Pa., Pumps.
Carlisle and Elliott, Safety Lock for Elevators.
American Tube Works, Somerville, Mass., Seamless Tubes, etc. (brass and copper).
Jerome Wheelock, Worcester, Mass., Steam Engine Piston Packing.
W. C. Allison and Co., Philadelphia, Pa., Tubes and Pipes.
Silas Walton, Moorestown, N. J., Turbine Water Wheel.
National Water Wheel Co., Bristol, Conn., Turbine Water Wheel.
I. H. Risdon, Mount Holly, N. J., Turbine Water Wheel.
Nichols, Harris and Walker, London, Conn., Acid Pump and Siphon.
Eaton, Cole and Burnham Co., New York, Valves, Cocks, Nozzles.
Lowe and Watson, Bridgeport, Steam Boiler.
Wetherill, R., Chester, Pa., Steam Engine with Self-Packing Piston.
Knowlton and Dolan, Logansport, Turbine Water Wheel.
Alcott, T. S., Mount Holly, Turbine Water Wheel.
Eureka Fire Hose Co., New York City, Seamless Fire Hose.
Rogers and Black, Philadelphia, Pa., Boiler.
Babcock and Wilcox, New York City, Sectional Safety Steam Boiler.

GROUP XXI.

MACHINE TOOLS FOR WOOD, METAL, AND STONE.

Hugh Young, New York City, Reciprocating Stone-Sawing Machine.
Thomas Ross, Rutland, Vt., Stone-Sawing Machine.
Steam Stone Cutting Co., Rutland, Vt., Steam Stone Cutter and Channeler.
Branch, Crookes, and Co., St. Louis, Mo., Steam Stone-Sawing Machinery.
Emerson Steam Stone Saw Co., Pittsburgh, Pa., Stone-Sawing Machine.
Union Stone Co., Boston, Mass., Emery Wheels and other Grinding Machines.
Stephen's Patent Vise Co., New York City, Parallel Vises.
Knickerbocker Ice Co., Philadelphia, Pa., Ice Tools.
H. F. Dernell, Athens, N. Y., Ice Tools.
E. P. Allis and Co., Milwaukee, Wis., Sawing Machinery.
E. C. Atkins, Indianapolis, Ind., Circular and other Saws.
Armstrong Bros. and Co., Pittsburgh, Pa., Cork Cutter and Tapering Machines.
Battle Creek Machine Co., Battle Creek, Mich., Moulding and Dovetailing Machine, Solid Steel Cutter.
Henry Lloyd Beach, Montrose, Pa., Foot and Power Scroll-Sawing Machines.
A. M. Benson, Cleveland, O., Stave Jointer.
J. H. Blaisdell, Philadelphia, Pa., Wood-Working Machines.
M. F. Boult, Cincinnati, O., Dovetailing Machine.
Martin Buck, Lebanon, N. H., Slat Planer and Wedge-Making Machines.
Wm. B. Burk and Co., Philadelphia, Pa., Cork Machinery.
C. S. and S. Burt, Dunleith, Ill., Shingle Machine.
Chase Turbine Manufacturing Co., Orange, Mass., Circular Saw Mill.
Henry Disston and Sons, Philadelphia, Pa., Circular and other Saws.
Douglass Manufacturing Co., Seymour, Conn., Mechanics' Edgetools and Boring Implements for Wood.
J. A. Fay and Co., Cincinnati, O., Wood-Working Machinery.
Peter Gerlach and Co., Cleveland, O., Stave-Sawing Machine.
E. and F. Gleason, Philadelphia, Pa., Wood-Working Machinery.
John Gleason, Philadelphia, Pa., Spoke and Handle-Turning Lathe.
Goodell, Braun and Waters, Philadelphia, Pa., Wood-Working Machinery.
R. J. Gould, Newark, N. J., Dovetailing Machine.
J. S. Graham and Co., Rochester, N. Y., Wook-Working Machines, with Tools.
Greenlee Bros. and Co., Chicago, Ill., Sash, Blind, and Door Clamping.
Greenwich Machine Works, Greenwich, N. Y., Weavers' Wood-Working Machines.
John W. Griffiths, New York, N. Y., Wood-Bending Machine.
E. and B. Holmes, Buffalo, N. Y., Machines for Making Casks, etc.
Howard Manufacturing Co., Belfast, Me., Miter Machines.
Knapp Dovetailing Machine Co., Northampton, Mass., Dovetailing Machinery.
John L. Knowlton's Estate, Sharon Hill, Pa., Gig Saw.
Lane and Bodley, Cincinnati, Ohio, Portable Circular Saw Mill.
Lane and Bodley, Cincinnati, Ohio, Stroke Power Mortisers.
Lane Manufacturing Co., Montpelier, Vt., Circular Saw Mill.
Jas. R. Luce, Stevens's Point, Wis.
C. Meiners and Sons, Philadelphia, Pa., Band Saw Mill.

Moody, Dovetailing Machine.
S. R. Palmer, Philadelphia, Pa., Stave-Sawing Machine.
Power, Painter and Co., Philadelphia, Pa., Wood-Working Machines.
C. B. Rogers and Co., Norwich, Conn., Boring, Mortising, Tenoning, Planing, etc., Timber-Graining Machine, Band and Scroll Saw.
E. W. Ross, Fulton, N. Y., Automatic Circular Saw Mill.
Simonds Manufacturing Co., Fitchburg, Mass., Circular Saws.
Silver and Deming, Salem, Ohio, Hub-boxing and Spoke-tenoning Machines, Hollow Auger.
H. B. Smith, Smithville, N. J., Wood-working Machines.
Stearns Manufacturing Co., Erie, Pa., Circular Saw Mills.
Stow and Burnham, Philadelphia, Pa., Flexible Shaft for Transmitting Power.
Trump Bros., Wilmington, Del., Scroll Saw.
Walker Bros., Minneapolis, Minn., Paneling Machine and Scroll Saw.
Baxter D. Whitney, Winchester, Mass., Wood-working Machinery.
S. A. Woods Machine Co., Boston, Mass., Wood-working Machinery.
F. Armstrong, Bridgeport, Conn., Lathe Dogs and Breast Drills.
Clough and Williams, New York, N. Y., Machine for making Cork Handles of Wire.
Wm. L. Conel, Saw-Sharpening Machines.
J. H. Cooper, Philadelphia, Pa., Method of Changing Continuous Motion into Intermittent (Circular).
Howard Iron Works, Buffalo, N. Y., Bolt Cutter (Schlenker's).
Hendey Machine Co., Wolcottville, Conn., Planing Machine.
Old Colony Rivet Works, New York City, Planing and Shaping Machine.
Isaac P. Richards, Providence, R. I., Punches.
Stiles and Parker Press Co., Middletown, Conn., Stamps, Dies, and Power Hammers.
A. J. Wilkinson, Boston, Mass., Planing Machine and Lathes.
American Saw Co., Trenton, N. J., Punching, Shearing and Pressing Machines.
American Saw Co., Trenton, N. J., Circular Saws.
American Twist Drill Co., Woonsocket, R. I., Machines for Grinding Emery Wheels.
Cooper, Jones and Cadbury, Philadelphia, Pa., Lathes.
Empire Portable Forge Co., Troy, New York, Portable Forge.
Fitchburg Machine Co., Fitchburg, Mass., Lathes, Drills, etc.
Flather and Co., Nashua, N. H., Machine Tools.
Hardy Machine Co., Biddeford, Me., Grinding Machinery.
Hills and Jones, Wilmington, Del., Radical Drilling Machines.
Geo. C. Howard, Philadelphia, Pa., Grindstone "Hacker."
Hall and Belden Co., Danbury, Conn., Forging Hammers and Drop Forges.
Jones, Lamson and Co., Winchester, Vt., Screw-Cutting Machines.
Thorne, DeHaven and Co., Philadelphia, Pa., Portable Drilling Machine.
W. H. Merriman, West Meriden, Conn., Power Punching Press.
A. F. Prentice and Co., Worcester, Mass., Lathes and Drills.
J. H. Sternberg, Reading, Pa., Surface Grinding Machine.
C. A. and W. L. Teal, Philadelphia, Pa., Punching and Shearing Machines.
C. Van Haagen and Co., Philadelphia, Pa., Drills, Drill Attachments, Drill Grinders, etc., Boring Tools, and Slide Rest.
James Watson, Philadelphia, Pa., Gap Lathe.
Wicaco Screw Co., Philadelphia, Pa., Screws, Circular Cutters, etc.
Simpson (Bailey Wringing Machine Co.), New York, N. Y., Parallel Vises.
Fisher and Norris, Trenton, N. J., Double Screw Parallel Vises.
Thos. Hall, Philadelphia, Pa., Parallel Vises.
Chas. Merrill and Sons, New York, N. Y., Drop Hammer.
J. E. Mitchell, Philadelphia, Pa., Grindstones and Fixtures.

Oneida Steam Engine and Foundry Co., Oneida, N. Y., Lathe Chucks.
O. Smith and Bro., Bridgeport, N. J., Machines for Working Tin Plate.
E. J. Worcester and Co., Worcester, Mass., Pillar Drills.
John Roach and Son, New York City, and Chester, Pa., Wrought-Iron Forgings.
R. S. Newbold and Son, Norristown, Pa., Metal-Shearing Machines.
Richards, Loudon and Kelly, Philadelphia, Pa., Band Saw and Wood-Cutting Machinery.
Hewett and Follansbee, Washington, D. C., Filing and Setting Machine.
H. Hammond and Co., Hartford, Conn., Drop Forgings.
Billings and Spencer Co., Hartford, Conn., Drop Forgings.
Morse Twist Drill Co., New Bedford, Mass., Twist Drills, Circular Cutter, etc.
Benj. Lawrence, Lowell, Mass., Combined Index and Milling Machine.
Roswell Hart, Rochester, N. Y., Machine for Half-round Barrel Hoops.
Bradley Manufacturing Co., Syracuse, N. Y., Rubber-Cushioned Helve Hammer.
Northampton Emery Wheel Co., Leeds, Mass., Machine for Grinding with Emery.
Bliss and Williams, Brooklyn, N. Y., Presses and Lathes.
Ames Manufacturing Co., Chicopee, Mass., Lathes, Drills, and other Machine Tools.
E. Andrews, Williamsport, Pa., Saws and Attachments.
First and Pryibil, New York City, Band and Gig Saws, and Wood-working Machinery.
Bentel, Margedant and Co., Hamilton, O., Band and Gig Saws, and Planing Machines.
H. Burden and Sons, Troy, N. Y., Horseshoe Machine Model.
Brown and Sharpe Co., Providence, R. I., Machine Tools for Metals.
Brainard Milling Machine Co., Hyde Park, Mass., Milling and other Metal-working Machines.
Washburn Machine Shop, Worcester, Mass., Machine Tools for Metals.
Putnam Machine Co., Fitchburg, Mass., Machinists' Tools.
Ferris and Miles, Philadelphia, Pa., Machine Tools and Steam Hammers.
Pratt and Whitney Co., Hartford, Conn., Machine Tools for Metals.
William Sellers and Co., Philadelphia, Pa., Steam Hammers and Machine Tools.

GROUP XXII.

MACHINES AND APPARATUS USED IN SEWING, ETC.

National Needle Co., Springfield, Mass., Needle-Making Machines.
John Stark, Waltham, Mass., Watchmakers' Tools.
American Watch Co., Waltham, Mass., Watch-Making Machinery.
American Watch Co., Waltham, Mass., a System of Watch-Making.
United States Corset Co., New York, N. Y., Corset-Weaving Power Loom.
Levi B. Storrs, Canton, N. Y., Tailors' Pressing Machine.
Joseph D. Oppenheimer, Philadelphia, Pa., Patent Steam and Hot-water Curling Tubes.
The Billings and Spencer Co., Hartford, Conn., Drop Forge and Cold Pressed Sewing Machine Shuttles.
Albin Warth, Stapleton, N. Y., Traveling, Folding, and Measuring Machine.
Butler Braider Co., Clinton, Mass., Braiding Machines.

Geo. C. Howard, Philadelphia, Pa., Best Gearing for Sewing Machines.
The Pyramid Pin Co., New Haven, Conn., Pin Sticking Machine.
Mrs. A. G. Suplee, San Francisco, Cal., Needle.
Campbell and Clute, Cohoes, N. Y., Upright Rotary Knitting Machine.
Dana Bickford, New York, a Circular Knitting Machine.
Franz and Pope Knitting Machine Co., Bucyrus, Ohio, Family Knitting Machine.
T. C. Page, Chicopee Falls, Mass., Lamb Knitting Machine.
T. C. Page, Chicopee Falls, Mass., Lamb Knitting Machine.
G. C. Walters, Philadelphia, Pa., Sewing Machines for Green Hides.
Hat-Blocking Machine Co., Yonkers, N. Y., Sewing Machines for Sewing Sweat Linings in Hats.
Remington Sewing Machine Co., Ilion, N. Y., Buttonhole Sewing Machine.
The Singer Manufacturing Co., Elizabeth, N. J., Sewing Machines for Stitching Buttonholes.
Johnston, Clark and Co., Boston, Mass., "Home" Hand Shuttle Sewing Machine.
J. and W. Lyall, New York, N. Y., Sewing Machines.
The Davis Sewing Machine Co., Watertown, N. Y., Sewing Machines.
American Buttonhole Overseaming and Sewing Machine Co., Philadelphia, Pa., Sewing Machines.
Wilcox and Gibbs Sewing Machine Co., New York, N. Y., Sewing Machines.
The Howe Machine Co., Bridgeport, Conn., Shuttle Sewing Machines.
Wilson Sewing Machine Co., Chicago, Ill., Wilson's Family Sewing Machine.
The Weed Sewing Machine Co., Hartford, Conn., Shuttle Sewing Machine.
Wheeler and Wilson Sewing Machine Co., Bridgeport, Conn., Sewing Machines for Leather.
Wheeler and Wilson Manufacturing Co., Bridgeport, Conn., Sewing Machines.
The Singer Manufacturing Co., Elizabeth, N. J., Family Sewing Machines.

GROUP XXIII.

AGRICULTURAL MACHINES, IMPLEMENTS OF AGRICULTURE, ETC.

Mansfield Machine Works, Mansfield, O., Portable Farm Engines.
P. K. Dederick and Co., Albany, N. Y., Perpetual Baling Press.
Pennsylvania Agricultural Works, York, Pa., Machine for Separating Rice from its Straw.
Lewis Lamborn, Hamorton, Pa., Hoe Harrows.
Rochester Agricultural Works, Rochester, N. Y., Combined Mower and Reaper (Hubbard).
Huber Manufacturing Co., Marion, O., Revolving Rake, or Hay Collector.
Whitiley, Fassler and Kelley, Springfield, O., Sweep Rake Reaper (6 ft. cut).
P. Shaw, Philander, Mass., Power Butter Worker.
Wheeler, Millick and Co., Albany, N. Y., Horse Hay Rake.
Eclipse Windmill Co., Beloit, Wis., Wind Engine.
Pennsylvania Agricultural Works, Philadelphia, Pa., Plow.
S. R. Nye, Wincherdon, Mass., Horse Hay Rake.
Chandler and Taylor, Indianapolis, Ind., Portable Farm Engine.
Albert L. Betts, Troy, N. Y., Wire Machine.

W. L. Boyer Bros., Philadelphia, Pa., Union Horse Power.
Auburn Manufacturing Co., Auburn, N. Y., Manual Implements of Tillage
Peru City Plow Works, Peru, Ill., Corn Cultivator.
Israel L. Lands, Lancaster, Pa., Durable Safety Swingle-Tree.
Booman and Boschert, Syracuse, N. Y., Power Cider Press and Apple Mills, etc.
George Esterley and Son, Whitewater, Wis., Broadcast Distributor, and Hoe Attachments.
C. Pierpont and Co., New Haven, Conn., Fodder Cutter.
Hall Husking Glove Co., Chicago, Ill., Husking Glove and Pin.
P. P. Mast and Co., Springfield, Ohio, Corn Cultivator.
Hill's Archimedean Lawn Mower Co., Hartford, Conn., Lawn Mowers.
S. D. Foot, Springfield, O., Steam Fruit Cooking Apparatus.
Warder, Mitchell and Co., Springfield, O., Champion Self Raker and Reaper.
Herbner and Sons, Lansdale, Pa., Railway Horse Power.
Tubular Barrow and Truck Manufacturing Co., New York, Wheelbarrow.
David H. Hull, Syracuse, N. Y., Tobacco Stripper.
R. H. Allen and Co., New York, Sugar Land Plows, Cultivators, etc.
O'Brien Bros., Manufacturing Co., Keirance, Ill., Vibrating Harrow.
William A. Wood, Albany, N. Y., Reaping Machine.
Silver and Dening, Salem, O., Chaff Cutters.
Myham, Schenck and Co., N. Y., Corned Beef Cutters.
D. Root and Son, Mount Joy, Pa., Cultivators.
Moses Johnson, N. Y., Cultivator.
Molino Plow Co., Molino, Ill., Plows and Cultivators.
Keystone Manufacturing Co., Sterling, Ill., Two Horse Corn Planter.
Blymer Manufacturing Co., Cincinnati, O., Sugar Machinery.
Kenosha Fanning Mill Co., Kenosha, Wis., Fanning Mill.
C. N. Sargent, Newburyport, Mass., Hand Corn Planter.
George W. Brown, Galesbury, Ill., Corn Planter.
Keystone Manufacturing Co., Rock Falls, Ill., Hand Corn Sheller.
Remington Agricultural Co., Ilion, N. Y., Patent Rotating Weeder.
Bickford and Hoffman, Moceda, N. Y., Fertilizing Attachment to Grain Drill.
Bradley Manufacturing Co., Syracuse, N. Y., Reaping Machines.
Bradley Manufacturing Co., Syracuse, N. Y., Horse Rakes.
A. J. Nellis and Co., Pittsburgh, Pa., Patent Process of Chilling Steel.
Thomas Haggard and Co., Sterling, Ill., Chaff Cutter.
Minard Harder, Cobliskill, N. Y., Horse and Tread Power Machines.
New York Cotton Gin Co., N. Y., Hand Power Cotton Gin.
Farquar and Co., York, Pa., Horse Gear for Cotton Gin.
Deere and Co., Molino, Ill., Plows.
Furst and Bradley, Chicago, Ill., Cultivator, Horse Rakes, and Plows.
Russell and Co., Massillon, O., Eight-Horse Power Threshing Machines.
R. Wakemans, Port Deposit, Md., Hay and Cotton Presses, Hand Power.
C. M. Bowen, Vineland, N. J., Stump and Rock Extractor.
Huber Manufacturing Co., Marion, O., Road Scrapers.
Randolph Bros., N. Y., Ditching and Dredging Machines.
Rhodes and Waters, Elyria, O., Eureka Post-Hole Digger.
Stratton and Cullum, Meadville, Hay Loaders.
D. Lombard, Boston, Mass., Hand-power Coffee Hullers.
Nathan Stockwell, Bainbridge, N. Y., Feeding Trough.
Brandon Manufacturing Co., Brandon, Vt., Farmer's Weighing Machine.
Gammon and Deering, Chicago, Ill., Wind Vane Pumping Engine.
Collins and Co., Hartford, Conn., Double Gang Plow.
Oliver Ames and Sons, Easton, Mass., Shovels and Spades.

South Bend Iron Works, South Bend, Ind., Chilled Plows and Attachments.
Worthington, Cooley and Co., Jackson, Mich., Rakes, Hoes, Forks, etc.
P. P. Mast and Co., Springfield, Ohio, Buck-Eye Plow and Sulky.
Maxwell, Rowlan and Co., Philadelphia, Pa., Shovels and Spades.
Vandiver Corn-Planter Co., Quincy, Ill., Corn-Planter.
Smith and Harper, Philadelphia, Pa., Hoes and Rakes.
B. Rowland and Co., Philadelphia, Pa., Shovels, Spades, Scoops, etc.
B. D. Buford and Co., Rock Island, Ill., Plows and Cultivators.
G. H. Peabody, New York, Attachment of Solid Emery to Wood in Rice Hullers.
B. F. Avery and Son, Louisville, Ky., Plows and Cultivators.
D. Wimpfheimer, Philadelphia, Pa., Automatic Vinegar Vat.
Pitts Agricultural Works, Buffalo, N. Y., Threshing Machines (Horse-power).
Henry S. Vanderbilt, Washington, D. C., Wagon Jack.
John Ashcroft, Marion, Oregon, Pruning Shears.
S. N. Gustino, Mexico, N. Y., Animal Poke.
James Shelby and Co., Peoria, Ill., Corn-Planter.
A. J. Nellis, Pittsburgh, Pa., Hay Fork, Gripping Claw, etc.
Peter Lynch, Mt. Holly, N. J., Hog Scalding Tub.
Evans and Baird, West Chester, Pa., Power Churn.
H. H. Roe and Co., Madison, O., Dairy Appliances.
Compartment Milk Can Co., Rockport, Vt., Milk Pans.
Geo. Bergner and Co., Washington, Mo., Apple and Peach Parers.
H. P. Rankins, Alleghany, Pa., Meat Chopper.
Wm. C. O'Neill and Co., Philadelphia, Pa., Kegs and Barrels.
Frank A. Parker, Reading, Pa., Apple Paring Machines.
Jones Brothers, Sturges, Mich., Fruit-Drier.
August Nittinger, Philadelphia, Pa., Meat Chopper and Sausage Stuffer.
J. G. Koehler, Pa., Butter Tubs, Churns, etc.
Geo. A. Deatz, Chico, Cal., Fruit Drier.
John T. Ellsworth, Barre, Mass., Oscillating Churn.
A. C. Cotton, Vineland, N. J., Adjustable Hoes.
J. Tingley, Philadelphia, Pa., Hand Power Churn.
Wm. L. Boyer and Brother, Philadelphia, Pa., Broom Corn Machinery.
A. B. Farquhar, York, Pa., Cotton Cultivator.
Universal Strainer Co., Rutland, Vt., Milk Strainer.
J. L. Jackson, New York, Stable Fittings.
Geo. Barnes and Co., Syracuse, N. Y., Knives and Sickles.
Brown, Hinman and Co., Columbus, O., Hoes, Forks, etc.
G. Westinghaus and Co., Schenectady, N. Y., Threshing Machines (horse and steam power).
A. C. Cotton, Vineland, N. J., Stump and Stone Extractor.
P. Embree and Son, West Chester, Pa., Revolving Butter Worker (hand).
New York Plough Co., New York, Cider Mill and Press.
John A. Hafner, Pittsburgh, Pa., Coil Springs for Threshing Machines.
D. E. McSherry and Co., Dayton, Ohio, Rice Drill.
J. F. Seiberling, Akron, Ohio, Mower.
Munsell and Dexter, Elizabeth, N. J., Lever Jack.
Gaar Scott and Co., Richmond, Ind., Ten-Horse Power Threshing Machine.
S. Z. Hall, New London, Conn., Self-Feeder to Cotton Gin.
J. C. Bidwell, Pittsburgh, Pa., Plow and Steel Crucible Casting Work.
Geo. W. Rue, Hamilton, O., Potato Digger, Cultivator, Hoes, etc.
S. L. Allen and Co., Philadelphia, Pa., Drill and Wheat Hoe.
D. M. Osborne and Co., Auburn, N. Y., Burdick Reapers.
I. C. Hoadley and Co., Lawrence, Mass., Portable Farm Engines.
S. A. Day and Co., Baltimore, Md., Automatic Incubator.

Elias Stangland, Feed Steamer.
N. Kihler, Pittsfield, Ill., Fanning Mill.
Haworth Planter Co., London, O., Corn-Planting Apparatus.
Prof. Corbett, Long Island, N. Y., Incubator.
J. Sedgebee and Miller, Painesville, O., Feed and Corn Mills.
Speakman, Miles and Co., West Chester, Pa., Butter-Printing Table.
Thos. B. Parke, Philadelphia, Pa., Hand Churn.
Grigg and Co., Trumansburg, N. Y., Sulky Plow.
P. J. Stryker, New Brunswick, N. J., Self-Loading Excavator.
Samuel Fisher, Philadelphia, Pa., Wheel Gang Plow with Cultivator.
J. R. Fitzhugh, Philadelphia, Pa., and Ind., Hay Elevator.
Baugh and Sons, Philadelphia, Pa., Sectional Mills.
A. B. Travis, Brunstor, Mich., Wheat Hoe and Broadcast Sowing Machine.
American Shearing Manufacturing Co., Nashua, N. H., Sheep-Shearing Machine.
Rochester Agricultural Works, Rochester, N. Y., Reaping Machines.
Russell, Burdsall and Ward, Port Chester, N. Y., Bolts and Nuts for Agricultural Machinery.
Walter A. Wood, Hoosick Falls, N. Y., Harvester.
J. H. Thomas and Sons, Springfield, O., Horse Rake.
E. Stover and Bro., Freeport, Ill., Wind Engine.
Geo. Esterley and Son, Manasis, Wis., Harvester Reaping Machines.
McCormick and Son, Chicago, Ill., Automatic Binder.
Johnson Harvester Co., Rockport, N. Y., Mowers, Reapers, etc.
Osborne and Co., Auburn, N. Y., Automatic Binder.
C. Auttman and Co., Canton, Ohio, Table Rake and Reaper Combined (exception, see 54).
Walter A. Wood, Hoosick Falls, N. Y., Self-Binding Reapers.
Aultman, Miller and Co., Akron, Ohio, Improved Buckeye Reapers (exception, see 52).
Sweet, Faulkner and Co., Davisville, N. Y., Reaping Machines.
Frick and Co., Waynesboro, Pa., Portable Farm Engines.
H. Burden and Sons, Troy, N. Y., Model of Horseshoe Machine.
I. F. Brown, New London, Conn., Power Cotton Gin.
Whitman and Miles Manufacturing Co., Akron, Ohio, Mowing and Reaping Machines.
David Kahnweiler, New York, Plantation Cotton Seed Hullers.
Queen of the Harvest Co., West Chazy, N. Y., Grain and Seed Separator and Grader.
United States Wind Engine Co., Balloora, Ill., Wind Engines.
Sandwich Manufacturing Co., Sandwich, Ill., Self-Feeding Power Corn Sheller.
S. W. Hall, Elmira, N. Y., Universal Tenoning Machines.
Jos. K. Mount and Co., Hightstown, N. J., Champion Hay Conveyer.
S. Hauck and Bro., Lebanon Co., Pa., Cabbage Cutters.
Perry Stewart, Newport, N. Y., Tedding Machine.
I. E. Wisner, Friendship, N. Y., Horse Rake.
R. R. Murphy, Fulton, Ill., Honey Extracting Machine.
Jos. Rothchild, Shelbyville, Ky., Check Row Corn Planter.
Oscar F. Tiffany, San Francisco, Cal., Fruit Drying Machines.
Skinner and Bro., Des Moines, Iowa, Plows.
Richmond Plow Works, Richmond, Ind., Plows.
C. B. Rogers, Philadelphia, Pa., Iron Cultivators.
Geo. Griffith, Philadelphia, Pa., Spades and Shovels.
Myers and Ervien, Philadelphia, Pa., Assortment of Forks.
T. Rowland and Son, Philadelphia, Pa., Shovels and Spades.

Beardsley Scythe Co., Winstead, Conn., Scythes, Grass and Brier Hooks.
Balls Scythe Works, Saratoga, N. Y., Grain Scythes and Cradles.
Freeman, Valentine and Green, Ithaca, N. Y., Hand Corn Sheller.
Chicago Scraper and Ditcher Co., Chicago, Ill., Road Scraper.
Jewett Milk Can Co., Cortland, N. Y., Milk Pans.
J. I. Case and Co., Racine, Wis., Ten Horse Power Threshing Machine.
Dunn Edge Tool Co., West Waterville, Maine, Scythe Blades, Grass Hooks, etc.
Pennock Manufacturing, Kennett Square, Pa., Double Arm Hay Forks.
Orange County Pail Co., New York, Butter Pails.
John Matthews, Pleasant Grove, Pa., Butter Printing Machines.
C. B. Rogers, Philadelphia, Pa., Fruit Boxes and Baskets.
A. J. Nellis and Co., Pittsburgh, Pa., Iron Tie for Binding Cotton.
R. H. Allen and Co., New York, Horticultural Implements.
Barnard Cortrite, Norwalk, Ohio, Eureka Fanning Mill.
Hillbow, Buckman and Co., Newton, Pa., Hollenback Reapers.
P. P. Flowering, Bethesda, Mass., Pruning Shears.
Geo. Cheavin, Rapid Water Filters.
Best Steam Engine and Boiler Works, Portable Farm Engines.
Herman F. Dernell and Co., Athens, N. Y., Ice Tools.
W. B. Allen and Co., Ogdensburg, N. Y., Gilt Edge Milk Pan.
Tappey and Steel, Petersburg, Va., Beasley's Power Baling Press.
Graham, Emlen and Passmore, Philadelphia, Pa., Lawn Mowers.
Ludlow and Rogers, Cider Mill and Press.
Rev. Caldwell Miller, Deborah Bee Hive.
P. P. Mort and Co., Cider Mill and Press.
Walter A. Wood, Hoosick Falls, N. Y., Sweep Rake Reapers.
Champion Machine Co., Springfield, Ill., Self-Raking Reaper.
Keystone Mfg. Co., Sterling, Ill., Cider Mill and Press.
Nicholls, Shepard and Co., Battle Creek, Mich., Threshing Machine and Straw Elevator.
Nash and Bro., New York City, Potato Planter.
A. Speer and Sons, Pittsburgh, Hill-side and Turn-rest Plow.
I. A. Tweat, Cleveland, Ohio, Self-opening Carriage Gate.
Gale Manufacturing Co., Albion, Mich., Horse Hay Rake.
E. Remington and Co., Ilion, N. Y., Needle Cotton Gin.
Bradley Manufacturing Co., Syracuse, N. Y., Mowing Machine.
Bickford and Hoffman, Macedon, N. Y., Grain and Seed Drill Combined.
McSherry and Co., Dayton, Ohio, Grain and Small Seed Drill.
Farmers' Friend Co., Dayton, Ohio, Grain and Small Seed Drill.
Johnson, Gere and Co., Owego, N. Y., Grain and Small Seed Drill.
C. Altmann and Co., Canton, Ohio, Mowing Machines (Buckeye).
The Wilbur Co., Towanda, Pa., Direct Draft Eureka Mowing Machines.
Warden, Mitchell and Co., Springfield, Ohio, Mowing Machines.
Champion Machine Co., Springfield, Ohio, Combined Mower and Reaper.
C. Russell and Co., Canton, Ohio, Mowing Machine (Peerless).
C. H. McCormick and Co., Chicago, Ill., Mowing Machines.
Adrian Platt and Co., Poughkeepsie, N.Y., Mowing Machine (Buckeye Model).
Otis Bros. and Co., New York (Haymaker), Mowing Machines.

GROUP XXIV.

INSTRUMENTS OF MEDICINE, SURGERY, ETC.

Heckelman, M.D., Alleghany City, Pa., Anatomical Preparations.
Flemming and Talbot, Philadelphia, Pa., Galvanic Apparatus.
Philadelphia Truss Co., Philadelphia, Pa., Trusses.
Wm. H. Horn and Bro., Philadelphia, Pa., Trusses.
McKisson and Robbins, New York, N. Y., Pharmaceutical Preparations.
Wm. G. A. Bonwill, Philadelphia, Pa., Electro Magnetic Mallet.
D. W. Kolbe, Philadelphia, Pa., Orthopedic Instruments.
Quincy A. Scott, Pittsburgh, Pa., Atmospheric Disc-Dental Work.
T. Kidder, New York, N. Y., Galvanic Apparatus.
Rob't A. Hance, Philadelphia, Pa., Fluid Extracts (Medicinal).
Hance Bros. and White, Philadelphia, Pa., Conical Plate Drug Mill and Percolator.
Samuel S. White, Philadelphia, Pa., Dentists' Instruments.
Dr. David Ahl, Newville, Cumberland County, Pa., Adaptable Porous Splints.
Seabury and Johnson, New York, N. Y., Plasters.
B. O. and G. C. Wilson, Boston, Mass., Pressed Medicinal Herbs, Leaves and Flowers.
T. McIlroy, New York, N. Y., Invalid Elevating and Fracture Bedsteads, Oculist Chair and General Operating Table.
Crandall and Son, New York, N. Y., Crutches.
G. Hayden Day, Bennington, Vt., Fracture Splints.
Samuel Adyer Darrach, Newark, N. J., Wheeled Crutches.
Galvano Faradic Co., New York, N. Y., Galvanic Apparatus.
Samuel S. White, Philadelphia, Pa., Dental Engines.
Wallace Brothers, Statesville, N. C., Indigenous Plants used in Medicine.
Horatio G. Kern, Philadelphia, Pa., Dental Extracting Forceps.
H. D. Justi, Philadelphia, Pa., Artificial Teeth.
Charles Abbey and Sons, Philadelphia, Pa., Gold Foil.
W. R. Warner, Philadelphia, Pa., Sugar-coated Pills.
Charles T. White and Co., New York, N. Y., Pharmaceutical Chemicals.
George Tieman and Co., New York, N. Y., Surgeons' Instruments.
H. Planten and Son, New York, N. Y., Gelatine Capsules for Liquid and Solid Substances.
Bolen and Byrne, New York, N. Y., Mineral Waters and Syphons.
Mann and Valentine, Richmond, Va., Valentine's Meat Juice.
Henry Bower, Philadelphia, Pa., Glycerine.
J. T. Wood, Toledo, Ohio, Splint for Leg and Thigh.
Morris Mattson, M.D., New York, N. Y., Hard Rubber Syringes.
Samuel Adger Darrach, Newark, N. J., Rawhide Apparatus for Spinal Curvature, also Hip and Knee Joint and Bow Leg Apparatus.
William Valleau, Jr., New York, N. Y., Dental Gold Foil.
E. Parmly Brown, Flushing, L. I., Specimens of Operative Dentistry.
Robert Shoemaker and Co., Philadelphia, Pa., Drugs and Fluid Extracts.
Mellor and Rittenhouse, Philadelphia, Pa., Extract of Liquorice in Mass and Rolls.
Perry Vincent, Germantown, Pa., Elastic Bandages for Surgical Purposes.
George Tieman and Co., New York, N. Y., Thermometers and Galvanocaustic Apparatus.
Bartlett, Butman and Parker, Chicago, Ill., Common Sense Truss.
Emil Scheffer, Louisville, Ky., Pepsin.

Jacob T. Teufel, Philadelphia, Pa., Dental Forceps.
E. Weiskopf, New York, N. Y., Ophthalmoscope and Laryngoscopes.
J. H. Gemrig, Philadelphia, Pa., Surgical Instruments.
Codman and Shurtleff, Boston, Mass., Dental Instruments, Furniture and Inhaler.
Peter Möller, Cod Liver Oil.
B. Frank Palmer, LL.D., Philadelphia, Artificial Limbs.
Samuel S. White, Philadelphia, Artificial Teeth.
Marvin Bros. and Bartlett, Portsmouth, N. H., Cod Liver Oil.
Samuel S. White, Philadelphia, Dental Chairs.
Chas. Fayette Taylor and Thos. M. Ludlow Christie, New York, N. Y., Orthopaldic and Local Exercises Apparatus.
J. B. Seeley, Philadelphia, Pa., Trusses.
E. C. Penfield and Co., Philadelphia, Pa., Trusses.
Frederick Brown, Philadelphia, Pa., Essence of Jamaica Ginger and other Pharmaceutical Compositions.
Elastic Truss Co., New York, N. Y., Trusses.
Boericke and Tafel, Philadelphia, Pa., Homœopathic Preparations.

GROUP XXV.

INSTRUMENTS OF PRECISION, RESEARCH, ETC.

Riggs and Brother, Philadelphia, Taffrail Log.
James Prentice, New York, Surveying and Levelling Instruments.
Pratt, Read and Co., Deep River, Conn., Ivory Goods.
John Pfaff, Philadelphia, Flutes and Clarionettes.
E. Paulus, Philadelphia, Watches and Clocks.
Washburne and Moen, New York, Music Wire.
Henry S. Tarr and Son, Philadelphia, Mason and Carpenters' Dry Bevel.
Charles M. Stieff, Baltimore, Grand Concert and Square Piano.
George Steck and Co., New York, Grand, Square, and Upright Pianos.
Louis H. Spellier, Doylestown, Pa., Clocks.
Anton Subenhühner, New York, Violins.
William Seefeldt, Philadelphia, Brass Instruments.
Wm. F. Schmoele, Philadelphia, Orchestrions.
Jerome B. Secor, Bridgeport, Conn., Artificial Singing Birds.
Schomacker and Co., Philadelphia, Grand, Square, and Upright Pianos.
C. F. Zimmermann, Philadelphia, Accordeons and Concertinas.
T. Alteneder, Philadelphia, Drawing Instruments.
John Albert, Philadelphia, Violins, Violas, Contra Bass, Cithers.
Chas. F. Albert, Philadelphia, Violins, Violoncellos, and Violas.
Brown and Buckwell, New York, Harp.
Bevin Bros. Manufacturing Co., East Hampton, Conn., House, Table, and Sleigh Bells.
Jacob Diamond, Pittsburgh, Pa., Lenses and Eye-Glasses.
Alfred Dolge, New York, Piano Felts and Sounding-Board Wood.
Decker Bros., New York, Grand, Upright, and Square Pianos.
Hallet, Davis and Co., Boston, Grand, Upright, and Square Pianos.
Western Electric Manufacturing Co., Chicago, Galvanometers and Resistance Coils.

John William Otto, St. Louis, one Semi-Upright Piano Forte.
Joseph Neff, Philadelphia, Violins, Viola, and Violoncello.
George McFadden, Syracuse, N. Y., Brass Instruments.
Munroe Organ Reed Co., Worcester, Mass., Organ Reeds.
McDonald Piano Forte Manufacturing Co., Williamsport, Pa., Square Piano Fortes.
N. H. Edgerton, Philadelphia, Philosophical Instruments.
N. H. Edgerton, Philadelphia, Polariscope and Stereopticon.
George M. Eddy and Co., Brooklyn, N. Y., Measuring Tapes.
George A. Dowden, Newark, N. J., Burglar Alarm and Automatic Annunciator.
George D. Beatty, Baltimore, Md., Slides prepared for the Microscope.
Clough and Warren Organ Co., Detroit, Mich., Reed Organs.
Bacon and Karr, New York, Square and Upright Piano.
W. E. Barbon, East Hampton, Conn., House, Table, and Sleigh Bells.
L. Black and Co., Philadelphia, Spectacle and Eye-Glass Frames.
Wm. Blake and Co., Boston, Fog Bell.
John Bliss and Co., New York, Taffrail Log.
Burdett Organ Co., Erie, Pa., Reed Organs.
Isaac Alexander, Improved Frames for Eye-Glasses.
A. Faas and Co., Philadelphia, Square Piano.
Mason and Hamlin Organ Co., Boston, Reed Organs and Harmoniums.
Henry McShane and Co., Baltimore, a Chime of Thirteen (13) Bells.
Wm. Knabe and Co., Baltimore, Concert, Grand, Square, and Upright Pianos.
Henry G. Lehnert, Philadelphia, Brass Instruments, Cymbals, etc.
Conrad Meyer and Sons, Philadelphia, Square Piano Fortes.
Patrick and Carter, Philadelphia, Pa., Telegraph Sounders, Learners' Apparatus, etc.
Samuel Peck and Co., New Haven, Conn., Photographic Apparatus, Graphoscopes.
Jas. W. Queen and Co., Philadelphia, Pa., Mathematical and Drawing Instruments, Microscopes.
Albert Weber, New York, N. Y., Grand, Square, and Upright Pianos.
Henry M. Weaver, Mansfield, Ohio, Automatic Gravity Platform Scale.
Watts and Co., Baltimore, Md., Electric Annunciator.
William B. Watkins, New York, N. Y., Instruments of the Automatic Signal Co.
Washburn and Moen Manufacturing Co., Galvanized Telegraph Wire.
Wm. H. Walnesley, Philadelphia, Pa., Microscopic Objects.
Wm. Wales, Fort Lee, N. Y., Objectives for the Microscope.
Welsh and Anders, Boston, Mass, Magnetic Printing Telegraph Instrument.
Western Electric Manufacturing Co., Chicago, Ill., Brooks' Insulators.
Western Electric Manufacturing Co., Chicago, Ill., Electric Bells, Annunciators, Fire Alarms.
Western Electric Manufacturing Co., Chicago, Ill., Brooks' Printing Telegraph.
Western Electric Manufacturing Co., Chicago, Ill., Railway Train Signal.
Leopold Trouvelot, Cambridge, Mass., Astronomical Drawings.
Scovill Manufacturing Co., New York, N. Y., Photographic Apparatus.
L. D. Sibley and Co., Vineland, N. J., Stereoscopic Album and Stereoscope.
Spencer Optical Manufacturing Co., New York, N. Y., Spectacles and Eye-Glasses.
John Stock and Co., Photographic Cameras and Stands.
D. A. Woodward, Baltimore, Md., Solar Cameras.
Wilson, Wood and Co., Photographic Apparatus.

J. J. Wilson, Stereopticon.
T. A. Wilson, Reading, Pa., Spectacles and Eye-Glasses.
S. W. Robinson, Champaign, Ill., Odontograph.
Prof. S. W. Robinson, Champaign, Ill., Dividing Machine for Unequal Parts.
National Fire Alarm Co., Richmond, Ind., Fire Alarm and Police Telegraph.
Gong Bell Manufacturing Co., East Hampton, Conn., Gongs and Bells for Hotels and Houses.
Goodwin and Co., Philadelphia, Pa., Gas Meters, etc.
Aug. Gemünder, New York, N. Y., Contrabasso.
Samuel Gardiner, Washington, D. C., Electric Gas Lighting Apparatus.
Holmes Burglar Alarm Telegraph Co., New York, N. Y., Burglar Alarm Telegraph.
Wallace and Sons, Ansonia, Conn., Farmers' Magneto-Electric Machine.
Gold and Stock Telegraph Co., New York, N. Y., Gold and Stock Transmitter.
D. Farrand Henry, Detroit, Mich., Current Meter, and Inlet Pipe and Strainer for Water Works.
Hazleton Bros., New York, N. Y., Grand and Upright Piano Fortes.
Kranich, Back and Co., New York, N. Y., Grand Square and Upright Pianos.
Hinzen, Kosen and Co., Louisville, Ky., Square Piano.
Hazleton Bros., New York, N. Y., Grand and Upright Piano Fortes.
Peloubet, Pelton and Co., New York, N. Y., Reed Organs.
Harris, Griffin and Co., Philadelphia, Pa., Gas Meters, etc.
Byrne, Brooklyn, N. Y., Galvanic Battery.
Alexander Beckers, Revolving Stereoscopes.
Silas Fourrier, New Orleans, La., Tell-tale and Starters' Clocks.
American Optical Co., South Bridge, Mass., Spectacle and Eye-Glass Frames.
William Kuebler, Philadelphia, Pa., Surveying Instruments.
Seth Thomas Clock Co., Thomaston, Conn., Tower Clocks and Clocks for Commerce.
Hiller and Brightley, Philadelphia, Pa., Surveying Instruments.
Hietel Bros. and Geisler, Philadelphia, Pa., Improvement in Lever Watches.
John L. Gropengresser, Philadelphia, Pa., Astronomical Clock.
Geo. B. Grant, Boston, Mass., Tabulating Calculating Machine, "Difference Engine."
Geo. B. Grant, Boston, Mass., Arithometer.
G. Tagliabue, New York, N. Y., Self-Registering Meteorological Instruments, Hydrometers, and Milk Tester.
Darling, Brown and Sharpe, Providence, R. I., Straight Edges, Scales, Squares, Wire Gauges, etc.
James Cremer, Philadelphia, Pa., Graphoscope.
C. Fauth and Co., Washington, D. C., Astronomical and Surveying Instruments.
Charles Fasoldt, Albany, N. Y., Astronomical Tower Clock.
Ithaca Calendar Clock Co., Ithaca, N. Y., Calendar Clocks.
Ansonia Brass and Copper Co., New York, Clocks.
Ph. Kompff and Son, New York, Drums, Banjos, Tambourines.
Keuffel and Esser, New York, Drawing, Surveying, etc., Instruments.
Vandersen and Tift, Cincinnati, Ohio, Church Bells, and Smaller for Common Use.
I. F. Stratton, New York, Wind Instruments for Bands.
Wm. J. Young and Sons, Philadelphia, Pa., Surveying Instruments and Astronomical Circle.
Wm. J. Rogers, Cambridge, Mass., Apparatus for Producing Extremely Fine and Uniform Graduations and Register Tools.

Emmons Hamlin, Boston, Mass., Four Violins.
Boston Musical Instrument Mnf'y, Boston, Mass., Brass Instruments.
E. and G. G. Hook and Hastings, Boston, Mass., One Large and Three Small Church Organs.
A. Hahl and Co., Baltimore, Md., Electric Clocks, Bells, Indicators, Burglar Alarms, Tower Clocks.
L. J. Marcy, Philadelphia, Pa., Lime-light Sciopticon, Oil-light Sciopticon.
Hilborne L. Roosevelt, New York, N. Y., Church Organ.
W. and L. E. Gurley, Troy, N. Y., Transits, Levels, Compasses, etc.
E. and H. J. Anthony and Co., New York, N. Y., Projection Lanterns, Improved Graphoscope, Hand Stereoscope, and Megascope.
T. H. McAllister, New York, N. Y., Projection Lantern, Microscopes, etc.
Alexander Graham Bell, Salem, Mass., Graham Bell's Electric Telephone and Multiple Telegraph.
Elisha Gray and Samuel Stockton White, Chicago, Ill., Gray's Electric Telephone and Multiple Telegraph.
Gamewell and Co., The American System of City Fire Alarm.
Atlantic and Pacific Telegraph Co., Edison's American Automatic Telegraph.
Western Union Telegraph Co., New York, Quadruplex Electric Telegraph.
Western Union Telegraph Co., New York, The Phelps Printing Telegraph.
American District Telegraph Co., Improved Gravity Battery, District Telegraph Apparatus.
Joseph Zentmayer, Philadelphia, Pa., Microscopes.
Stoninger Organ Co., New Haven, Conn., Reed Organs.
Chickering and Sons, Boston, Mass., Concert, Grand, Upright, and Square Piano Fortes.
Steinway and Sons, New York, N. Y., Grand, Square, and Upright Pianos.

GROUP XXVI.

ARCHITECTURE AND ENGINEERING.

Thos. H. Speakman, Philadelphia, Pa., Combined Wire and Wood Fence for Farm Use.
J. Herbert Shedd, Providence, R. I., A Hydrant with all the Necessary Appurtenances.
State of Massachusetts, Mass., New England Hospital for Women and Children.
State of Ohio, Ohio, Ohio State Building.
State of Massachusetts, Danvers, Mass., State Hospital for Insane.
Michigan Survey Commission, Michigan, Michigan Geological Charts.
Kentucky Survey Commission, Kentucky, Geological Charts and Profiles.
Q. M. General M. C. Meigs, Washington, D. C., Plans of two Large Bridges.
Professor Semper, Plans of Town Hall.
State of Massachusetts, Exhibit of Normal Schools, etc.
United States, Exhibits of Engineering.
Engineer Corps U. S. A., Pontoon Bridge for Advanced Guard and Army.
U. S. Government, Collective Exhibit Cliff and Cave Dwellings.
Clarke, Reeves and Co., Philadelphia, Pa., Girard Avenue Bridge across the Schuylkill.

GROUP XXVII.

PLASTIC AND GRAPHIC ART.

Geo. Hetzel(?) Hertzel, Painting in Oil.
W. Wittredge, Painting in Oil.
M. F. H. de Haas, Painting in Oil.
Eastman Johnson, Painting in Oil.
F. A. Bridgeman, Painting in Oil.
Jervis McEntee, Painting in Oil.
T. E. Rosenthal, Painting in Oil.
Miss Anna M. Lee, Painting in Oil.
W. M. Hunt, Painting in Oil.
Jas. M. Hart, Painting in Oil.
J. R. Key, Painting in Oil.
T. Hill, Painting in Oil.
W. A. Shade, Painting in Oil.
H. D. Kruzeman Van Elten, New York, Oil Painting.
E. G. Bigelow, Detroit, Mich., Photographs.
N. Sarony, New York City, Photographs.
D. Woodward, Washington, D. C., Photography.
Centennial Photograph Co., Philadelphia, Pa., Photography.
John Reid, Paterson, N. J., Photographs.
American Photo-Lithographic Co., Heliographs.
C. S. Mosher, Chicago, Ill., Photographs.
J. H. Kent, Rochester, N. Y., Photographs.
Carl Seiler, Philadelphia, Pa., Photographs.
J. F. Ryder, Cleveland, O., Photographs.
W. Kurtz, New York City, Photographs.
John Carbutt, Philadelphia, Pa., Heliographs.
Bradley and Rulofson, San Francisco, Cal., Photographs.
Henry Rocher, Chicago, Ill., Photographs.
Thos. Houseworth, San Francisco, Cal., Photographs.
Chas. Bierstadt, Niagara Falls, Photographs.
D. A. Anderson, Richmond, Va., Photographs.
C. E. Watkins, San Francisco, Cal., Photographs.
Miss Etta Bloodgood, New York City, Artificial Flowers in Wax.
Arthur Fitzpatrick and Co., Staten Island, N. Y., Stained Glass.
S. Slack and Co., Orange, N. J., Stained Glass Windows.
Tiffany and Co., New York City, Silver inlaid with Niello and Copper.
Baker, Arnold and Co., Philadelphia, Pa., Artistic Castings, Lamp Burners, etc.
Corbin and Co., New Britain, Conn., Ornamental Hardware.
F. C. Vandyke, New York City, Stair Rods.
J. L. Mott and Co., New York City, Castings in Iron.
Wm. H. Jackson and Co., New York City, Metal Grates and Chimney Appurtenances.
J. and R. Lamb, New York City, Artistic Castings, etc.
Keiser and Herzog, Philadelphia, Pa., Decoration by Fresco.
Marcotte and Co., New York City, Wall Decorations.
Pottier and Stymus, New York City, Decorations.
Ware and Van Brunt, Boston, Mass., Architectural Designs.
M. Fernbach, New York City, Architectural Designs.
Thayer, Boston, Mass., Architectural Designs.

Sturgis and Brigham, Boston, Mass., Design for Court Buildings.
Carl Pfeiffer, New York City, Architectural Designs.
Jno. McArthur, Philadelphia, Pa., Design for Public Buildings in Philadelphia.
Schwartzmann and Kafka, Philadelphia, Pa., Various Structures on Exposition Grounds.
R. M. Upjohn, New York City, Design for State House.
Gambrill and Richardson, New York City, Architectural Designs.
William Hopson, Everett, Mass., Grained Wood, imitation of stone.
P. Moran, Philadelphia, Pa., Etchings.
American Bank Note Company, Engraving.
Edwin Forbes, New York City, Etchings.
Knoedler and Co., New York City, Engravings, Etchings, etc.
W. E. Marshall, New York City, Engraving.
Strœfer and Kirchner, New York City, Engravings.
Continental Bank Note Co., Engravings.
National Bank Note Co., Engravings.
A. B. Durand, New York, Engraving.
H. H. Nichols, Engravings.
J. W. Lauderbach, Philadelphia, Pa., Wood Engraving.
Harley, New York, Wood Engraving.
Prang and Co., Boston, Mass., Chromo Lithography.
Jos. Hoover, Philadelphia, Pa., Chromo Lithography.
Henry Brown, Philadelphia, Pa., Miniatures.
American Society, Painters of Water Colors, Collection of Water Colors.
H. Roberts, Philadelphia, Pa., Sculpture.
E. D. Palmer, Albany, N. Y., Sculpture.
John Rogers, New York City, Sculpture.
Miss Isabella Gifford, Syracuse, N. Y., Sculpture.
Montague Handley, Sculpture.
Miller and Kripe, Philadelphia, Pa., Medallion in Relief—Bronze.
Gorham and Co., Providence, R. I., Repoussé Work in Silver.
Tiffany and Co., New York, Repoussé Work in Silver and Iron.
Louis Bonnet, New York, Cameos.
Henry Mitchell, Boston, Mass., Engraved Seals and Dies.
School of Design, University of Cincinnati, Cincinnati, O., Wood Carving.
A. Kimbel and Cabus, New York, Chimney Piece in Wood.
L. Marcotle and Co., New York, Cabinet in Black, Wood Engraving.
School of W. H. Fry, Cincinnati, O., Wood Carving.
Francis B. Mayer, Annapolis, Md., Oil Painting.
A. J. H. Way, Baltimore, Md., Oil Painting.
G. Brücke, New York, Oil Painting.
P. F. Wharton, Philadelphia, Oil Painting.
Peter Moran, Philadelphia, Oil Painting.
Emily Sartain, Philadelphia, Oil Painting.
E. M. Bannister, Providence, R. I., Oil Painting.
Charles Volkmar, Baltimore, Md., Oil Painting.
Albert Bierstadt, New York, Oil Painting.
David Johnson, New York, Oil Painting.
Edward Moran, New York, Oil Painting.
H. H. Moore, New York, Oil Painting.
W. T. Richards, Philadelphia, Oil Painting.
R. Swain Gifford, New York City, Oil Painting.
D. Huntington, New York, Oil Painting.
F. E. Church, New York, Oil Painting.
H. Peters Gray, New York, Oil Painting.

J. B. Irving, New York, Oil Painting.
S. R. Gifford, New York, Oil Painting.
J. B. Bristol, New York, Oil Painting.
J. H. Beard, New York, Oil Painting.
P. F. Rothermel, Philadelphia, Oil Painting.
Thomas Moran, Newark, N. J., Oil Painting.
H. Herzog, Philadelphia, Oil Painting.

GROUP XXVIII.

EDUCATION AND SCIENCE.

Adams, Blackmer and Lyon Publishing Co., Chicago, Ill., Publications and Blanks for Schools.
D. Appleton and Co., New York, N. Y., Various Publications.
A. L. Barnes and Co., New York, N. Y., School Books, Maps, Charts, etc.
H. C. Baird and Co., Philadelphia, Pa., Various Publications.
A. T. Bicknell and Co., New York, N. Y., Books for Builders.
J. H. Butler and Co., Philadelphia, Pa., Books and Maps.
Brewer and Tileston, Boston, Mass., Books.
Claxton, Remsen and Haffelfinger, Philadelphia, Pa., Books.
Cowperthwait and Co., Philadelphia, Pa., Books.
S. C. Griggs and Co., Chicago, Ill., Publications.
Harper and Bros., New York, N. Y., Books.
Henry Holt and Co., New York, N. Y., Books.
H. O. Houghton and Co., Cambridge, Mass., Plain and Colored Lithographic Printing.
Ivison, Blakeman, Taylor and Co., New York, N. Y., School and College Text Books.
F. Leypoldt, New York, N. Y., Publishers' Weekly, etc.
Lindsay and Blakiston, Philadelphia, Pa., Medical, Dental, and Scientific Books.
G. and C. Merriam, Springfield, Mass., Books.
Orange Judd and Co., New York, N. Y., Books, etc.
James R. Osgood and Co., Boston, Mass., Books.
Potter, Ainsworth and Co., New York, N. Y., School Books.
The Sons of Geo. P. Putnam, New York, N. Y., Books, Literature, and History.
Porter and Coates, Philadelphia, Pa., Books.
Geo. P. Rowell and Co., Exhibition of American Newspapers.
J. Sabin and Sons, New York, N. Y., Bibliographical Publication.
Scribner, Armstrong and Co., New York, N. Y., Books and Maps.
Sower, Potts and Co., Philadelphia, Pa., Books.
Wm. Wood and Co., New York, N. Y., Books.
Wilson, Hinkle and Co., Cincinnati, O., Books.
A. H. Andrews and Co., Chicago, Ill., School Desks.
J. C. Arthur, Charles City, Iowa, Herbarium of Plants of Iowa.
L. Prang and Co., Mass., System of Drawing designed by W. Smith, and other Publications on Art Teaching.
L. Trouvelot, Cambridge, Mass., Astronomical Drawings.
C. D. Sheldon and Co., Michigan, Archæological Specimens.

C. H. Hitchcock, New Hampshire, Map.
National School Furniture Co., New York, N. Y., School Desks and Letters.
Henry Whilale, Pennsylvania, Planisphere.
Miss Rachel Walk, Philadelphia, Pa., Kindergarten.
I. Newton Pierce, Pennsylvania, School Desks.
J. H. McIlvain, Philadelphia, Pa., Specimens in Natural History.
Kay and Bros., Philadelphia, Pa., Law Books.
H. H. Rushby and Pupils, Essex Co., N. J., Herbarium containing the Complete Flora of Essex County.
M. W. Dalrymple, New Jersey, Charts, Drawings, and Water-Colors, Paintings, Illustrations of Natural History.
Prof. Saml. Lockwood, New Jersey, Monmouth Ethnology.
Miss Blow, Superintendent of Kindergarten, St. Louis, Mo., Kindergarten.
F. and J. W. Johnson and Co., Philadelphia, Pa., Law Books.
Peirce's Union Business College, Philadelphia, Pa., Penmanship, Book-Keeping, Publications showing Courses of Instruction, etc.
Lee and Shepard, Boston, Mass., Works of Charles Sumner, etc.
The American Society of Civil Engineers, New York, a very large Collection of Models, Plans, Drawings, Photographs, and various Publications, illustrating the Work of the Society and the Progress of Engineering.
The Franklin Institute, Philadelphia, Pa., Collection of Machines, Models, Plans, Drawings, Portraits, Photographs, etc.
John Runnell Bartlett, Providence, R. I., Bibliographical Publication.
Miss E. M. Coe, New York, Kindergarten Work and Materials.
American Bible Society, New York, Bibles in many Styles and Languages.
Gebbie and Barrie, Philadelphia, Pa., Publications.
Henry A. Ward, Rochester, N. Y., Collections in Natural History.
J. R. Galbraith, New York City, Collection of Stuffed Birds.
H. E. Copeland, Indianapolis, Ind., Glass Case containing Forty Specimens of Indiana Fish, and other Exhibits in Natural History.
Miss Grace Anna Lewis, Kimberton, Pa., Chart of Natural History.
John Davis, Allegheny City, Pa., Astronomical Apparatus.
Mrs. E. G. Wormley, Columbus, Ohio, Microscopic Illustrations of Micro-Chemistry of Porsino.
Milton, Bradley and Co., Springfield, Mass., Kindergarten Material and Publications.
J. W. Schemmerhorn and Co., New York City, School Apparatus, Furniture, and Health Lift.
N. H. Edgerton, Philadelphia, Pa., Philosophical and Chemical Apparatus.
Lowell School of Industrial Design, Boston, Mass., Drawings.
Lowell Schools, Massachusetts, Photographs and Pupils' Work.
Museum of Comparative Zoology, Massachusetts, Drawings, Catalogues, Bulletins and Reports.
New Bedford Schools, Massachusetts, Scholars' Work, Text and Reference Books.
Normal Art School, Massachusetts, Drawings.
Perkin's Institution for the Blind, Massachusetts, Scholars' Work.
State Board of Education, Massachusetts, Reports and General Educational Exhibits.
Society for the Prevention of Cruelty to Animals, Massachusetts, Case containing Improved Models of Cattle Cars, etc.
The Town of Newton, Massachusetts, Work of Pupils, Photographs, Statistics, etc.
The School Committee of Greenfield, Massachusetts, Bound Volumes of School Work, Photographs, etc.
Essex Institute, Salem, Mass., Complete Set of Publications.

American Missionary Society, New York, Map showing the Location of Schools under its Fostering Care, Documents, etc.
Boston Public Library, Boston, Mass., Reports, Catalogues, etc., of the Library.
Department of Public Instruction of the City of Boston, Massachusetts, Educational Documents, Statistical Charts, School Works, etc.
Free Industrial Institute, Worcester, Mass., Drawings, Models, Machinery, etc.
American Printing House for the Blind, Louisville, Ky., Work of the Blind.
Lafayette, Ind., Model of District School House, and Pupils' Work.
Indianapolis, Indiana, Model of School No. 3, and Pupils' Work.
Fort Wayne, Indiana, Model of High School Building and School Work.
Department of Public Instruction, Ind., Public School System.
State Department of Public Instruction, Iowa, Pupils' Work.
Board of Education, West Desmoines, Iowa, Pupils' Work.
Board of Education, Lewiston, Me., Pupils' Work.
Board of Education, Portland, Me., Pupils' Work.
Board of Education, Augusta, Me., Pupils' Work.
State Department of Public Instruction, Augusta, Me., Collective Exhibition, Representing the Schools of Maine.
American Academy of Arts and Sciences, Mass., Memoirs and other Works.
Institute for the Deaf and Dumb, Jacksonville, Ill., Manuscript Work and Photographs of Pupils, etc.
Illinois State Teachers' Association, Illinois, Collective Exhibition, representing the Public Schools, and the Industrial, Professional and Charitable Institutions of Illinois.
Chicago Graded Schools, Chicago, Ill., Volumes of Selected Work, "History of Chicago, 1673–1876."
Board of Education, County of Ogle, Ill., Pupils' Work.
Aurora Graded Schools, Aurora, Ill., Portfolio of Drawings, of Statistics, etc.
Central Pacific R. R. Co., Natural Objects and Illustrations of Objects representing the Flora and Fauna of California and other Portions of the Country traversed by the Central Pacific R. R.
Board of Education, Washington, D. C., Model of Franklin School Building, Pupils' Work, etc.
Board of Education, Burlington, Iowa, Pupils' Work.
Chinese Coms. of Education (Hon. B. G. Northup), Hartford, Conn., Work of Numerous Chinese Pupils in Different American Schools.
State Normal School, New Britain, Conn., Pupils' Work.
State Board of Education, Connecticut, Pupils' Work, Collections in Natural History, etc.
Board of Education, Hartford, Conn., Pupils' Work.
Spt. A. J. Rickoff, Ohio, Plan of Public School Building.
School for Dependent Children, Coldwater, Mich., Plans, Drawings, Reports, etc.
State Normal School, Maryland, Pupils' Work.
Baltimore Board of Education, Baltimore, Maryland, Pupils' Work.
Michigan State Agricultural College, Lansing, Mich., Collection of Woods Representing the Forests of Michigan, Reports, etc.
Board of Education, Detroit, Mich., School Furniture.
State University of Missouri, Missouri, Students' Work.
Board of Education, St. Louis, Mo., Kindergarten.
State Normal School, New Jersey, Laboratory, Map Drawing from Memory, etc.
Rutgers College, New Jersey, Documents, Work done by Students, etc.
Board of Education, Jersey City, N. J., Scholars' Work, Cabinet Specimens, etc.

American Antiquarian Society, Worcester, Mass., Full Set of Publications of the Society.
Manchester Board of Education, New Hampshire, Pupils' Work.
Dartmouth College, Hanover, N. H., Models, Drawings, and Publications, and Map.
New York Institute for the Blind, New York, Plans, Models, Types, Dissected Map, etc.
Regents of the University of N. Y., Albany, N. Y., Full Set of Reports and Documents.
Board of Eduaction, Syracuse, N. Y., Drawings, etc.
Cooper Union, New York, Drawings.
Board of Education, Minneapolis, Minn., Pupils' Work.
Board of Education, Easton, Pa., Pupils' Work, Photographic Views, Plans, etc.
Board of Education, Allentown, Pa., Pupils' Work, Plans, Photographs, etc.
Board of Education, Reading, Pa., Pupils' Work, Photographic Views, Statistics, etc.
Board of Education, Bucks Co., Pa., School Work, Educational Statistics, etc.
Sandusky City Schools, Sandusky City, Ohio, Pupils' Work.
Department of Public Schools, Ohio, Public School System and Work.
Dayton Schools, Dayton, O., Pupils' Work.
Columbus Schools, Columbus, O., Pupils' Work.
Cleveland Schools, Cleveland, O., Drawing.
Cincinnati School of Design, Cincinnati, O., Pupils' Work.
Cincinnati Public Schools, Cincinnati, O., Writing and Industrial Drawing.
State Department of Public Instruction, Trenton, N. J., Collective Exhibit of Documents, Statistics, etc.
Board of Education of Pittsburgh, Pittsburgh, Pa., Pupils' Work.
Board of Education of Lancaster Co., Lancaster Co., Pa., Pupils' Work, Statistics, etc.
Girard College, Philadelphia, Pa., Drawings, etc.
Girls' Normal School of Philadelphia, Philadelphia, Pa., Pupils' Work.
Institution for the Instruction of the Blind, Philadelphia, Pa., Pupils' Work.
Lafayette College, Easton, Pa., Charts, Models, and Students' Work.
School of Design for Women, Philadelphia, Pa., Drawing and Industrial Drawing.
State Department of Public Instruction, Pennsylvania, Systems and Agencies of Public Education.
State Normal School, Millersville, Pa., Chart showing Courses of Study, Statistics, etc.
Polytechnic College of Philadelphia, Pa., Publication, Work of Students in Natural History, etc.
University of Pennsylvania, Philadelphia, Pa., Books and Apparatus of Instruction.
Soldiers' Orphans' Schools of State of Pennsylvania, Collection of Photographs, Plans, School and Shop Work.
Board of Education, Providence, R. I., History and Statistics, School Work, etc.
Board of Education, Memphis, Tenn., Pupils' Work.
Hampton Normal Agricultural and Mech. Ins., Hampton, Va., Views, Paintings, Plans, etc.
Board of Education, Wheeling, W. Va., Pupils' Work.
State Agricultural Society, Wisconsin, Complete Set of its Transactions in 1851.
State Department of Public Instruction, Wisconsin, Educational Charts, Statistics, Reports, etc.

University of Wisconsin, Madison, Wis., Bound Volumes of Catalogues, Regents' Reports, Examination Papers by Students, Plans of Grounds and Buildings, a History Prepared for the Exhibition, and quite Important Representations from its Mineralogical Collections.
Geo. W. Allen, St. Louis, Mo., Archæological Collection.
Board of Education, Milwaukee, Wis., Statistics, Reports, and many bound volumes—Pupils' Works.
Wisconsin State Historical Society, Madison, Wis., Antiquities of Wisconsin.
Institute of Technology, Massachusetts, Students' Work.
Boston Art Academy, Boston, Mass., Drawings.
Southern Normal University, Illinois, Manuscripts, Drawings, etc.
Normal University, Illinois, Plans and Purposes of the University, etc., and State Museum.
Catholic Publication Society, Ecclesiastical History.
The Methodist Book Concern, New York, Works in Biography.
Michigan State University, Michigan, Microscopical and Pharmaceutical Exhibits.
Centennial Educational Committee, Michigan, General Educational Exhibits.
Industrial School for Blind, Deaf, and Dumb, Flint, Mich., Pupils' Work.
Board of Education, Ann Arbor, Mich., Pupils' Work.
Board of Education, Adrian, Mich., Pupils' Work.

GROUP XXIX.

HORTICULTURAL APPLIANCES, ETC.

John M. Jones, Elmira, N. Y., Pruning and Transplanting Instruments.
Stephen W. Smith, Philadelphia, Pa., Preserved Flowers.
George Balderson, Colora, Md., Plant Boxes.
The J. L. Mott Iron, New York, Iron Fountains, Statuary, and Vases.
B. K. Bliss and Sons, New York City, Garden Requisites.
Mueller, Quackenboss and Co., Philadelphia, Pa., Garden Vases.
A. and H. A. Williamson, Wax Models of Fruits and Flowers.
Freeman and Smith, Racine, Wis., Brackets, Boxes for Window Plants, etc.
George E. Jencks, Lawn Sprinkler.
I. Francois Huss, Flushing, L. I., Skeletonized Leaves, etc.
Henry A. Dreer, Philadelphia, Pa., Garden Requisites, etc.
A. Rolker and Sons, Florists' Supplies.
Peter Henderson and Co., New York City, Florists' Supplies.
M. Perrine and Sons, Baltimore, Md., Pottery, Flower Pots, etc.
A. H. Hews and Co., North Cambridge, Mass., Flower Pots, etc.
Mrs. Jane Watson, Massillon, Ohio, Mosses.
Mrs. P. V. Hathaway, Otsdawa, Otsego Co., N. Y., Herbarium.
I. M. Hess and Son, Philadelphia, Pa., Hanging Baskets, Ferneries, and Plant Cases.
Racine Hardware Manufacturing Co., Racine, Wisconsin, Ferneries, Aquariums, and Flower Stands.
Mrs. Henry C. Wilson, Philadelphia, Pa., Phantom Bouquet.
Robt. Wood and Co., Philadelphia, Pa., Iron Vases.
John G. Wilson, New York City, Corrugated Heating Pipe and Boiler for Greenhouse Heating.

Hitchings and Co., New York City, Corrugated Firebox and Vase-burning Water-boiler for Heating Greenhouse.
John Dick, Philadelphia, Improved Hot-water Boiler for Heating Greenhouse.
Chas. R. Ellis, New York City, Hot-water Boiler.
Thomas J. Myers and Son, Philadelphia, Pa., Greenhouse Boiler for Heating Hothouses.
Smith and Lynch, Boston, Mass., Portable Hot-water Heaters for Greenhouses.
Miller and Hayes, Philadelphia, Ground Plans for Improving Residences.
I. Weidenmann, New York City, Plans for Improving Grounds.
Frank Heissinger, New York City, Plans and Designs for Laying Out Grounds.
Miss Mary Murtfelt, Kirkwood, Mo., Herbarium.
M. Walker and Sons, Philadelphia, Pa., Wire-work.
Harvey and Adamson, Philadelphia, Pa., Terra Cotta Ware.
Philip Klag, New York, Models for Florists' use.
Mrs. E. C. Shriner, Wax Flowers, Hair-work, etc.
Galloway and Graff, Philadelphia, Terra Cotta Vases, etc.
M. M. Bayersdorfer and Co., Philadelphia, Pa., Bouquet Holders.
Ed. Jansen, New York City, Floral Patterns.
W. Mitchell, Philadelphia, Portsilica Vase.
O'Brien Brothers, Yonkers, N. Y., Rustic Work.
W. F. Wheeler, Boston, Mass., Liquid Distributor.
Pennock Bros., Philadelphia, Pa., Plant Case.
F. O. Hanson, Philadelphia, Pa., Enclosure.

GROUP XXX.

HORSES, MULES, AND ASSES.

Mark Devine, Philadelphia, Pa., Trotting Filly.
H. N. Smith, Trenton, N. J., Trotting Filly.
J. C. Van Vliet, Newark, N. J., Carriage Team.
McKean and Husick, Easton, Pa., Carriage Team.
H. N. Smith, Trenton, N. J., Colt.
Wm. McBride, Philadelphia, Pa., Horse.
Henry Heron, Buffalo, N. Y., Stallion.
J. B. Baker, Jr., Thorndale, Pa., Roadster Gelding.
Brinton King, Caddsford, Pa., Horse.
Lewis R. Hassinger, Philadelphia, Pa., Horse.
E. W. Wood, Baltimore, Md., Horse "Catch 'Em."
J. H. Powers, Hamilton, Md., Horse.
W. J. Cook, Foxboro, Mass., Horse.
McKean and Husick, Easton, Pa., Horse "Ivanhoe."
Wm. B. Smith, Hartford, Conn., Horse.
Joseph B. Baker, Thorndale, Pa., Roadster Stallion.
Chas. L. Sharpless, Philadelphia, Pa., Trotting Stallion.
Chas. L. Sharpless, Philadelphia, Pa., Roadster Stallion.
J. G. Pfouts, Litiz, Pa., Roadster Stallion.
J. H. Taylor, Philadelphia, Pa., Roadster Stallion.
Whitnock and Holl, Somerville, N. J., Roadster Stallion.

Wm. B. Smith, Hartford, Conn., Trotting Stallion.
Jos. B. Baker, Jr., Thorndale, Pa., Roadster Stallion.
Charles L. Sharpless, Philadelphia, Pa., Horse.
Wm. Gurney, Charleston, S. C., Mare "Sallie Emison."
Jos. B. Baker, Thorndale, Pa., Stallion.
A. Welch, Philadelphia, Pa., Mare.
Jas. Moore, Philadelphia, Pa., Mare.
Jas. Moore, Philadelphia, Pa., Mare.
Wm. F. Jennifer, Baltimore, Md., Horse.
J. J. Parker, West Chester, Pa., Yearling Filly.
J. J. Parker, West Chester, Pa., Horse.
J. J. Parker, West Chester, Pa., Yearling Colt.
J. Halter Gross, Philadelphia, Pa., Horse.
A. Welch, Philadelphia, Pa., Mare.
A. Welch, Philadelphia, Pa., Mare.
A. Welch, Philadelphia, Pa., Thoroug.. Bred Stallion "Leamington."
W. F. Goodwin, Stelton, N. J., Stallion.
M. H. Cryer, Salem, Ohio, Horse.
Wm. McBride, Philadelphia, Pa., Trotting Mare.
Geo. T. Murray, Racine, Wis., Stallion.
Joseph K. Carpenter, Philadelphia, Pa., Roadster Gelding.
Col. A. R. Phyfr, New York, N. Y., Horse.
Col. A. R. Phyfr, New York, N. Y., Mare.
Col. A. R. Phyfr, New York, N. Y., Horse.
M. W. Dunham, Wayne, Du Page Co., Ill., Mare.
M. W. Dunham, Wayne, Du Page Co., Ill., Stallion.
J. J. Perry, Wilmington, Ill., Stallion.
J. J. Perry, Wilmington, Ill., Stallion.
Colin Cameron, Marietta, Lancaster Co., Pa., Mare.
F. H. Yeager, Alburtiss, Pa., Draft Stallion.
W. Meikle, Indiana, Pa., Filly.
W. Meikle, Indiana, Pa., Stallion.
Chas. L. Sharpless, Philadelphia, Pa., Trotting Filly.
M. Riley, Philadelphia, Pa., Horse.
A. Welch, Philadelphia, Pa., Horse.
Wm. Gurney, Charleston, S. C., Thorough Bred Stallion "Bingaman."
L. A. Hitchcock, Boston, Mass., Thorough Bred Stallion "Limestone."
J. S. Stewart, West Chester, Pa., Horse.
Mr. Justice, Philadelphia, Pa., Gelding.
A. Welch, Philadelphia, Pa., Mare.
James Moore, Philadelphia, Pa., Filly.
A. R. Murdock, Auburn, N. Y., Team.
McKean and Hulick, Easton, Pa., Team.
S. T. Suit, Baltimore, Md., Ponies.
Curuana, New York, N. Y., Pure Jack Malta.
Chas. Williams, Summit, N. J., Walking Horse.
T. Justice, Philadelphia, Pa., Pony.
Joseph Nichols, Holmesdale, Pa., Walking Horse.
Samuel Parsons, Blooming Grove, N. Y., Stallion.

GROUP XXXIV.

DOGS.

Nicholas Salters, Brooklyn, N. Y., Native Irish Setter Dog Puppies.
J. H. Whitman, Chicago, Ill., Native Irish Setter Dog.
Max Wenzel, Hoboken, N. J., Irish Setter Dog.
Jas. R. Tilley, Locust Valley, Long Island, N. Y., Native Gordon Setter Dogs.
J. Howard Hand, West Granby, Conn., Native Gordon Setter Dogs.
V. J. Shipman, State Centre, Iowa, Native English Setter Dog Puppy "Dom Pedro."
Thos. Maldrick, Providence, R. I., Native English Setter Bitch Pups.
James Ayres, Allamucky, N. J., Native English Setter Bitch Puppy.
E. P. Hewett, Providence, R. I., Native English Setter Dog Puppy.
W. W. Colkett, Philadelphia, Pa., Imported English Setter Dog.
James Ayres, Allamucky, N. J., Native English Setter Dog.
Frank Kelly, Philadelphia, Pa., English Setter Dog.
C. Settle, Philadelphia, Native English Setter Dog.
E. F. Mercilliott, New York, Native English Bitch Setter Pup.
C. S. Westcott, Philadelphia, Five Native English Setter Puppies.
G. H. Sannote, Tuckerton, N. J., Native English Setter Dog Puppies.
V. J. Shipman, State Centre, Iowa, Native English Setter Dog Puppy.
Samuel Bar, Philadelphia, Native English Setter Bitch.
Joseph A. Porter, Philadelphia, Pa., Native English Setter Dog.
Ward H. Bent, Philadelphia, Native English Setter Dog.
J. B. Settle, Philadelphia, Native English Setter Dog.
Charles H. Raymond, Morris Plains, N. J., Native English Setter Dog.
Charles P. Tasker, Philadelphia, Native English Setter Dog.
A. P. Baldwin, Newark, Native English Setter Dog.
Wm. H. Nugent, Philadelphia, Native English Setter Dog.
T. F. Taylor, Colt's Neck, N. J., Native English Setter Bitch.
E. F. Mercilliott, New York, Native English Setter Bitch.
Jacob Pentz, Newark, Native English Setter Bitch.
Joseph A. Porter, Camden, N. J., Native English Setter Bitch.
G. W. Twaddell, Philadelphia, Pa., Native English Setter Dog.
J. B. McNeal, Baltimore, Md., Native English Setter Dog.
Charles P. Tasker, Philadelphia, Imported English Setter Bitch.
C. S. Westcott, Philadelphia, Imported English Setter.
E. F. Mercilliott, New York, Native English Setter Bitch Puppy.
V. J. Shipman, State Centre, Iowa, Native English Setter Bitch Pup.
Joseph McKinney, Philadelphia, Native English Setter Dog Pup.
Samuel D. Berger, Camden, Native English Setter Bitch.
A. P. Baldwin, Newark, N. J., Native English Setter Bitch.
M. VonCulin, Delaware City, Del., Chesapeake Bay Dogs.
O. D. Foulks, Chesapeake City, Md., Chesapeake Bay Dogs.
G. H. Anderson, N. Y., Spunger Dogs (over two years).
Edward A. Hawes, Newark, N. J., Pointer Bitch (under fifty pounds over two years).
Edward A. Hawes, Newark, New Jersey, Pointer Dog (over fifty pounds).
Major Alburger, Philadelphia, Pa., Poodle Dog, "Tom" (one year old).
Thomas N. Dudley, Camden, N. J., Sheep Dog, "Ken" (over two years).
W. Meikle, Indiana Co., Pa., Sheep Dog, "Jim," in puppy class, nine months old.

W. Meikle, Indiana Co., Pa., Sheep Dog, "Watty" (over one year and under two).
F. C. Yarnoll, Overbrook, Pa., Sheep Bitch, "Ring" (over two years old).
George Aitken, Chester Co., Pa., Sheep Bitch, "Shepherdess" (under twelve months).
George Aitken, Chester Co., Pa., Sheep Bitch, "Home Nellie," Skye, and hairless.
G. C. Rodgers, West Phila., Pa., Mexican Cross "Tip."
W. Crozier, North Point, L. I., Sheep Dog "Sport."
James Berry, West Philadelphia, Pa., Sheep Dog "Shep."
H. Hill, West Philadelphia, Pa., Sheep Dog "Neptune."
Julius Holstein, Allentown, Pa., Siberian and Mastiff cross "Rover."
Mrs. Ella G. Hall, New York City, French Barbet "Fid."
Thomas Manly, Zoological Gardens, West Philadelphia, Pa., Chinese Edible Dog "Piero."
Robert Murray, Philadelphia, Pa., New Foundland and St. Bernard cross "Nero."
J. C. Bailey, Philadelphia, Pa., Pug Dog "Scott."
J. C. Bailey, Philadelphia, Pa., Pug Bitch "Vic."
H. W. Sharpless, Philadelphia, Pa., Pug Bitch "Topsy."
H. W. Sharpless, Philadelphia, Pa., Pug Dog "Sambo."
F. S. Miller, Philadelphia, Pa., Mexican Hairless Dog "Sport."
F. S. Miller, Philadelphia, Pa., Mexican Hairless Bitch "Nellie."
Thomas Biddle, Philadelphia, Sheffield Terrier Bitch "Dazzle."
Thomas Biddle, Philadelphia, Sheffield Terrier Dog "Gem."
Mrs. Jennie Gates, Philadelphia, Maltese Terrier "Mite."
J. W. Aldridge, Philadelphia, Toy Cuban Lap Bitch "Fusee."
John Moran, Philadelphia, Poodle Dog "Jim."
Alex. Glass, Philadelphia, Poodle Dog "George Washington."
Miss Anna J. Ball, Philadelphia, Pomeranian Dog "Snow Ball."
E. D. Whitney, Philadelphia, Pomeranian Dog "Rex."
F. McFadden, Philadelphia, Pomeranian Dog "Barney."
Mrs. Mary J. Francis, Philadelphia, Toy Terrier Bitch "Gipsey."
Thomas Hadfield, Philadelphia, Toy Terrier Bitch "Nell."
John Spealer, Philadelphia, Toy Terrier Dog "Jesse."
G. W. Patterson, Philadelphia, Toy Terrier Dog "Reddy."
James McGuire, Trenton, N. J., Otter Terrier "Bill."
James Hanton, Philadelphia, Broken Haired Terrier "Loafer."
A. Barracleugh, Philadelphia, Scotch Terrier Bitch "Rhody."
J. A. Chambers, Philadelphia, Scotch Terrier Bitch "Nellie," and four Puppies.
J. A. Chambers, Philadelphia, Scotch Terrier Bitch "Wasp."
C. Lafferty, Philadelphia, Scotch Terrier Dog "Duke."
T. H. Dudley, Camden, N. J., Scotch Terrier Dog "Rags."
J. A. Chambers, Philadelphia, Scotch Terrier Dog "Charley."
Thos. H. Dudley, Camden, N. J., Scotch Terrier Bitch "Imp."
James Smith, Philadelphia, Scotch Terrier Bitch "Lilly."
A. C. Harrison, Philadelphia, Scotch Terrier Bitch "Queenie."
G. W. Smith, Philadelphia, Scotch Terrier Dog "Tip."
H. Bradshaw, Trenton, N. J., Scotch Terrier Dog "Harry."
Francis B. Pye, Trenton, N. J., Scotch Terrier Dog "Harry."
Francis B. Pye, Trenton, N. J., Scotch Terrier Dog "Laddie."
L. D. Wetzlar, Philadelphia, Scotch Terrier Dog "Skye."
W. W. Harrison, Philadelphia, Scotch Terrier Dog "Fly."
E. Newman, Philadelphia, Siberian or Ulm Dog "Sedan."
Philip Hohe, Philadelphia, Siberian or Ulm Dog "Nero."

W. A. and A. F. Mullin, Esqs., Mount Holly Springs, Pa., Gordon Setters.
Jacob Peatz, Newark, N. J., Irish Setter Dogs.
Richard Torpin, Jr., Philadelphia, Pa., Gordon Setter Bitches.
Dr. A. Russell Strachan, New York, N. Y., Gordon Setter Dogs.
M. Von Culin, Delaware City, Del., Irish Setter Bitches.
W. J. Bickerton, Brooklyn, N. Y., Gordon Setter Dogs.
Samuel D. Berger, Camden, N. J., Gordon Setter Dogs.
Jacob Peatz, Newark, N. J., Irish Setter Bitches.
A. S. Phillips, Trenton, N. J., Gordon Setter Bitches.
Joseph E. Fisher, Brooklyn, N. Y., Gordon Setter Bitches.
Samuel D. Bergen, Camden, N. J., Gordon Setter Puppies.
S. Fleet Speer, M. D., Brooklyn, N. Y., Gordon Setter Puppies.
Henry Metcalf, Philadelphia, Pa., Irish Setter Dogs.
Wade H. Marrish, Jr., Philadelphia, Pa., Irish Setter Puppies.
Walter H. Bryant, Philadelphia, Pa., Irish Setter Bitch (Imported).
H. W. Gause, Wilmington, Del., Irish Setter Bitches.
Thomas Adcock, Providence, R. I., Irish Setter Bitch.
Chas. P. Tasker, Philadelphia, Pa., Setter Dogs.
John S. Davis, Philadelphia, Pa., Native Irish Setter Dogs.
Walter Humphreys, Newark, N. J., Irish Setter Dogs.
James R. Tilley, Locust Valley, Long Island, N. Y., Gordon Setter Puppies.
T. F. Taylor, Colt's Neck, N. J., Gordon Setter Puppies.
Lawrence Curtis, Boston, Mass., Gordon Setter Puppies.
S. Fleet Speer, Brooklyn, N. Y., Gordon Setter Puppies.
John E. Devlin, New York, N. Y., Imperial Irish Setter Bitch.
H. N. Munn, New York, N. Y., Native Gordon Setter Dogs.
Chas. E. Swain, Philadelphia, Pa., Native Irish Setter Puppies.
John E. Devlin, New York, N. Y., Native Irish Setter Puppies.
Jos. E. Fisher, Brooklyn, N. Y., Native Irish Setter Bitches and Puppies.
A. A. Clay, Philadelphia, Pa., Native Irish Setter Puppies.
Richard T. Miller, Camden, N. J., Native Irish Setter Bitches.
M. Von Coulin, Delaware City, Del., Native Irish Setter Dog.
Edward Hawes, Newark, N. J., Pointer Bitch under fifty pounds.
Joseph Turner, Baltimore, Md., Pointer Dog over fifty pounds.
Dr. A. Russell Strachan, New York, N. Y., Pointer Dogs over fifty pounds.
J. H. Whitman, Chicago, Ill., Irish Water Spaniel Bitch over two years.
A. Belmont Purdy, New York, N. Y., Cocker Spaniel Bitches over one and under two.
James T. Martin, Philadelphia, Pa., Pointer Puppies under one year.
James T. Martin, Philadelphia, Pa., Pointer Puppies under one year.
A. Belmont Purdy, New York, N. Y., Cocker Spaniel Dogs over one and under two years.
Henry Smith, Paterson, N. J., Spaniel Dog over two years.
Samuel Scranton, Providence, R. I., Spaniel Bitch over two years.
T. M. Aldrich, Providence, R. I., Spaniels other than pure Irish Bitches over two years.
W. H. Nugent, Philadelphia, Pa., Spaniel Bitches over two years.
J. W. Leigh, Branchtown, Pa., Spaniels other than pure Irish dogs over two years.
John P. R. Polk, Wilmington, Del., Cocker Spaniel Dog over one, under two years.
J. H. Whitman, Chicago, Ill., Spaniels over one, under two years.
E. M. Gillespie, Columbus, O., Pointer Bitches over fifty pounds, over two years.
James Warburton, New Britain, Conn., Pointer Dogs over fifty pounds.

Joseph T. Bailey, Philadelphia, Pa., Pointer Dogs over one and under two years.
F. A. Tremaine, Philadelphia, Pa., Pointer Dogs over fifty pounds.
Edmund Orgill, New York, N. Y., Pointer Dogs under fifty pounds.
William Effingham, Philadelphia, Pa., Pointer Dogs over fifty pounds.
George A. Strong, West Meriden, Conn., Pointer Dogs over fifty pounds.
Herman C. Berg, Rocky Hill, N. J., Pointer Dogs over fifty pounds.
Henry O'Donnell, Philadelphia, Pa., Beagle Bitch over one year, under two, "Fannie," black, white, and tan.
Henry O'Donnell, Philadelphia, Pa., Beagle Dog over one year and under two, "Ranger," black, white, and tan.
J. M. Powell, Philadelphia, Pa., Dachshund Dog, over one, under two years, "Duke."
Richard Hartley, Philadelphia, Pa., Harrier, over two years, "Bilbrough," black and tan.
J. Shaner, West Chester, Pa., Six Fox-Hound Puppies.
Frank D. Buttolph, Morristown, N. J., black, white, and tan Fox-Hound Bitch over two years.
Franklin Clayton, Marshalton, Pa., black and tan Fox-Hound, "Drive," over two years.
Franklin Clayton, Marshalton, Pa., "Sawley," black and tan Fox Hound Bitch, over two years.
J. J. Hughes, Gulf Mills, Pa., Fox-Hound Bitch, "Daisy," speckled, over two years.
Rathyen and Tranter, Port Richmond, N. Y., Fox-Hound Bitch, "Gipsy," black, white, and tan, over two years.
Jonathan Yerkes, Leopard, Chester Co., Pa., Fox-Hound Bitch, over two years.
Jonathan Yerkes, Leopard, Chester Co., Pa., Fox-Hound Bitch, over two years.
L. R. Cassard, Esq., Baltimore, Md., Native Gordon Setter Dogs.
Edward Howe, Esq., Princeton, N. J., Native Gordon Setter Dogs.
James S. Baer, Baltimore, Md., Pointer Dogs, over fifty pounds.
J. H. Pake, New York, N. Y., Pointer Dogs, over fifty pounds.
Wm. Seward Webb, M.D., New York, N. Y., Pointer Bitch, under fifty pounds.
Edmond Orgill, New York, N. Y., Pointer Bitch, under fifty pounds.
Fisher Howe, New York, N. Y., Pointer Dog Puppies, under one year.
Geo. Grant, New York, N. Y., Pointer Dog Puppies, under one year.
Wm. Seward Webb, New York, N. Y., Pointer Bitch Puppies, under one year.
Thos. P. Farding, Lancaster, Pa., Pointer Dogs, under two years.
Thos. Dunbar, Philadelphia, Pa., Pointer Dogs, under fifty pounds, between one and two years.
James H. Laws, Philadelphia, Pa., Pointer Dogs, under fifty pounds.
Edmond Orgill, New York, N. Y., Pointer Dog Puppies, under one year.
Edmond Orgill, New York, N. Y., Pointer Bitch Puppies, under one year.
W. H. Mann, Haddonfield, N. J., Pointer Dog Puppies, under one year.
Wm. M. Tileston, New York, N. Y., Pointer Dog Puppies, under one year.
Wm. Seward Webb, New York, N. Y., Pointer Bitch Puppies, under one year.
Edward R. Worrell, Philadelphia, Pa., Pointer Bitch, under fifty pounds and over two years.
Max Hillnick, Philadelphia, Pa., Pointer Dogs, under fifty pounds, over two years.
J. H. Whitman, Chicago, Ill., Irish Water Spaniel Dogs, over two years.
O. D. Foulkes, Chesapeake City, Maryland, Chesapeake Bay Dogs.

Justus Von Lengerke, New York, N. Y., Native English Setter Dog, over two years, "Dash."
Daniel Elmer, Bridgeton, New Jersey, Native English Setter Dog, over two years, "Dan."
Thomas Cumming, Stamford, Conn., Native English Setter Dog, over two years, "Rolla."
Henry Schreiber, Philadelphia, Pa., Native English Setter Dog, over two years, "Grouse."
Samuel Scranton, Providence, R. I., Native English Setter Dog, over two years, "Jim."
William Meikle, Indiana Co., Pa., Imported English Setter Dog.
G. T. Jones, West Philadelphia, Native English Setter Dog, over one, and under two years.
R. E. McClenahan, Port Deposit, Md., Imported English Setter Dog, over two years, "Snipe."
Charles W. Jackson, Philadelphia, Pa., Greyhound Puppies, under one year, "Duke and Fannie."
Andrew Albright, Newark, N. J., Greyhound Dog, over two years, "Charlie," Imported.
August Simon, Philadelphia, Pa., Greyhound, over two years, "Sam."
P. Kelley, Brooklyn, Greyhound Dog, over two years, "Spring."
F. C. Foulkodorf, Philadelphia, Pa., Greyhound Bitch, over two years, "Pet."
L. Eming, Philadelphia, Pa., Greyhound Bitch, over two years, "Belle."
Mrs. J. J. Allen, Philadelphia, Pa., White Italian Greyhound, two years and two months, "Nobby."
William Ahrens, Baltimore, Md., Harrier Bitch, "Belle," over two years.
Thomas David, Philadelphia, Pa., Beagle Puppy, under twelve months, "Rush," black and white.
John E. Diehl, Beverly, N. J., Beagle Puppy, under twelve months, "Belle."
John E. Diehl, Beverly, N. J., Beagle Bitch, Imported, over two years.
Frederick Underhill, Newark, N. J., Pair of Beagles, exceptionally good.
Louis C. McClay, Philadelphia, Native English Setter Bitch.
Dudley Olcott, Albany, Native English Setter Dog.
Starr, Jesse R., Camden, Native English Setter Bitch.
Nesbitt Turnbull, Baltimore, Md., Native English Setter Bitch.
Conrad Schreiber, Philadelphia, Native English Setter Bitch.
Geo. C. Morris, Philadelphia, Native English Setter Dog.
Geo. C. Colborn, New York, Native English Setter Dog.
W. M. Tileston, New York, Imported Gordon Setter Bitches.
Walter Humphrey, Newark, Native Irish Setter Bitches.
Munn, New York, Imported Gordon Setter Dogs.
Jacot Pentz, Newark, Native Irish Setter Bitches.
Joseph E. Fisher, Brooklyn, Native Irish Setter Bitches.
Everett Smith, Portland, Native Irish Setter Bitches.
Jacob Pentz, Newark, Native Irish Setter Dog.
Samuel D. Berger, Camden, Native Gordon Setters.
S. Fleet Speer, Brooklyn, Native Gorden Setters.
William Sanderson, Philadelphia, Pa., Skye Terrier.
William Mellor, Shoemakertown, Pa., Skye Terrier.
Francis Schreiber, Philadelphia, Pa., Skye Terrier "Harry."
Thomas Byrne, Philadelphia, Pa., Black and Tan Bitch.
Richard Berryman, Philadelphia, Pa., Black and Tan Bitch.
Joseph Hanlon, Philadelphia, Pa., Black and Tan Terrier "Jim."
Otto Forrester, Chicago, Ill., Black and Tan Terriers.
C. H. Roney, Philadelphia, Pa., Black and Tan Terrier.

C. Walton, New York City, Fox Terrier Bitch.
Wm. N. Tileston, New York City, Fox Terrier "Dom Pedro."
C. Walton, New York City, Fox Terrier Dog "Sport."
W. P. Mange, Philadelphia, Pa., Bull Terrier Bitch.
Thos. F. Bell, Camden, N. J., Bull Terrier Dog.
Abel Barracleugh, Philadelphia, Pa., Bull Terrier Dog "Sam."
Jos. Bigley, Philadelphia, Pa., Bull Terrier Dog "Nelson, Jr."
Jos. Bigley, Philadelphia, Pa., Bull Terrier Dog "Nelson."
Geo. Hunter, Philadelphia, Pa., Bull Bitch "Kate."
Thos. Biddle, Philadelphia, Pa., Bull Bitch "Patch."
Geo. Hunter, Philadelphia, Pa., Bull Pup "Spider."
Thos. Biddle, Philadelphia, Pa., Bull Dog "Bob."
Thos. Biddle, Philadelphia, Pa., Bull Dog "Dandes."
C. C. Holdeman, West Philadelphia, Pa., Dalmatian Dog.
Oberkirsch and Hammer, Philadelphia, Pa., Siberian or Ulm Dog.
E. K. Harrison, Philadelphia, Pa., Dalmatian Bitch "Vic."
T. J. Woodcock, Chicago, Ill., Dalmatian Bitch.
Saml. Kennedy, Kaighn's Point, N. J., Dalmatian Dog.
J. Lintz, West Winfield, New York, Siberian or Ulm Bitch.
P. R. Scherr, Philadelphia, Pa., True Newfoundland Bitch.
E. Bd. E. Picot, Branchtown, Philadelphia, True Newfoundland Bitch.
T. C. Stellwagon, Philadelphia, Pa., True Newfoundland Bitch "Dido."
Miss Burt, Philadelphia, Pa., Great Labradorean Newfoundland "Scot."
Hamilton Egbert, Bryn Mawr, Great Labradorean Newfoundland "Leo."
S. G. Baker, Wilmington, Del., Great Labradorean Newfoundland "Colonel."
Thos. C. Stellwagon, Philadelphia, Pa., Newfoundland "Neptune," Imported from Nova Scotia.
Edwd. B. E. Picot, Branchtown, Philadelphia, Imported Newfoundland "Leo."
Thos. H. Dudley, St. Bernard, one year old.
Thos. H. Dudley, Camden, N. J., Mastiff Bitch "Juno," one year old.
Thos. H. Dudley, Camden, N. J., Dog "Danger," Mastiff and St. Bernard crossed.
I. Leutz, West Winfield, N. Y., Siberian Dog "Darling."
Philip Hohe, Philadelphia, Siberian or Ulm "Flora."

LIST OF SPECIAL AWARDS.

George A. Strong, West Meriden, Conn., Pointer Dog "Pete."
Nesbitt Turnbull, Baltimore, Md., Native Setter.
Von Culin, Delaware City, Irish Setter.
Wm. H. Ungent, Port Richmond, Pa., Cocker Spaniel.
J. Shaner, West Chester, Pa., Two Foxhounds.
Dudley Olcott, Albany, N. Y., Native Setter Dog.

FLOUR MILLING MACHINERY.

Edward P. Allis and Co., Milwaukee, Wis., Cast Iron Rollers, Cylinder Mill.
Ingraham and Beard, Chicago, Ill., Scourers, Smutters and Separators Combined.
Edward P. Allis and Co., Milwaukee, Wis., Milling Machines.
C. K. Bullock, Philadelphia, Pa., Oscillating Bed Stove Balance.
C. K. Bullock, Philadelphia, Pa., Flour Packer.
C. K. Bullock, Philadelphia, Pa., Middlings Purifier.

Howes, Babcock and Co., Silver Creek, N. Y., Eureka Brush Scouring Machine..
Throops Grain Cleaner Co., Auburn, N. Y., Scourer, Smutter and Separator, Wheat Brush.
Blake and Walton, Philadelphia, Pa., Brush, with Anti-friction Rollers.
Baltimore Pearl Hominy Co., Baltimore, Md., Mill for removing Outer Coats of Corn.
Barnard and Leas, Moline, Ills., Machine for Packing Flour.
Howes, Babcock and Co., Silver Creek, N. Y., Eureka Smut Machine.
John T. Noyes and Son, Buffalo, N.Y., Runs of Stone for Grinding Wheat.
Huntley, Holcomb and Hunt, New York, N. Y., "Middlings" Purifier, Bran Duster.
John T. Noyes and Son, Buffalo, N. Y., Model of Flouring Mill.
Edward Harrison, New Haven, Conn., Run of Stones.
Munson Bros., Utica, N. Y., Run of Stones.
D. M. Richardson, Detroit, Mich., Polisher, Scourer and Separator.
M. Deal and Co., Bucyrus, Ohio, Smutter and Separator Combined.
H. P. Becker, Rock Falls, Ill., Brush Scouring Machine.
Turner, Parks and Co., Cayahoga Falls, Ohio, "Middlings" Purifier, Separator and Scourer.
Harris Brothers, Elizabeth, N. J., Smut Scouring Machine.
Chas. Kästner and Co., Chicago, Ill., Runs of Stone.
U. S. Wind Engine and Pump Co., Batavia, Ill., Model of Wind Mill with Runs of Stone.
Barnard and Leas, Moline, Ill., Brush Scouring Machines.
Roland, Frances and Co., Reading, Pa., Grain Decorticator and Separator.
Blake and Walton, Germantown, Pa., Bran Duster, etc.
Herbert S. Jewell, Brooklyn, N. Y., Separator.

SUPPLEMENTARY

LIST OF AWARDS

APPROVED BY THE COMMISSION, AND ANNOUNCED OCT. 7, 1876.

GROUP I.

MINERALS, MINING, METALLURGY, AND MACHINERY.

Mahoning Valley Cen. Association, Youngstown, Coals, Iron Ores, and Pig Iron.
Hanging Rock Iron Region, Portsmouth and Ironton, Pig Iron.
Virginia District, Iron Ores.
Huntingdon and Broad Top Coal and Iron Region, Coals, Coke, Iron Ores, etc.
State of Tennessee, Iron Ores.
State of Indiana, Coals, Iron Ores, Iron, Malleable Castings.
New York Section, Iron Ores.
State of Maryland, Mineralogical and Geological Collection.
Illinois Industrial University of Natural History, Lead Ores.
State of Missouri, Collection of Ores.
Ohio Centennial Commission, Building Stones, Collective Exhibit.
Lake Superior District, Iron Ores.
Territory of Arizona, Silver, Lead, and Gold Ores.
State of Pennsylvania, Bituminous Coals.
State of Pennsylvania, Semi-Bituminous Coals.
State of Pennsylvania, Anthracite Coals.
State of Ohio, Coals.
State of Kentucky, Coals.
Providence Franklin Society, Providence, Minerals and Geological Specimens from Rhode Island.
State of Iowa, Geological Collection.
General Survey, North Carolina, Raleigh, Collection of Building and Ornamental Stones.
Virginia Mining Bureau, Virginia, Collection of Ores.
Smithsonian Institute, Washington, Collection of Building Stones.
Geological Survey of New Jersey, Geological Collection.
State of Wisconsin, Collection of Minerals, Rocks, etc.
State of Arkansas, Mineralogical Collection.
Geological Survey of Kentucky, Geological Collection.
State of South Carolina, Mineral Phosphates.
Commission of State of West Virginia, Building Stones of West Virginia.
Geological Survey of Pennsylvania, Geological Collection, etc.
State of Nevada, Collection of Ores, and Stamp Mill.
Territory of Montana, Silver, Lead, and Gold Ores.
State of Michigan, Collection of Ores.
State of Colorado, Lead, Silver, and Gold Ores.
State of Delaware, Mineralogical Collection.

State of Missouri, Iron Ore.
Lehigh Valley Region, Pig Iron.
State of Kansas, Geological Collection.
Smithsonian Institute, Ores and Minerals.
Marietta, Pittsburgh and Cleveland R. R., Coals and Iron Ores.
Selma, Rome and Dalton R. R., Coals and Iron Ores.
South and North R. R. of Alabama, Iron Ores and Geological Sections.
St. Louis, Iron Mountain and Southern R. R., St. Louis, Mo., Collection of Ores.
H. T. Martin, Lynnport, Pa., Slate.
B. J. Peters, Mt. Stirling, Licking River, Lithographic Stone.
Chattanooga Map Com., Chattanooga, Map of Mineral Region around Chattanooga.
Colorado School of Mines, Colorado Geological Collection.
Wyoming Historical Geological Society, Wilkesbarre, Fossils from the Anthracite of Wyoming.
State of Iowa, Coals.
State of Kentucky, Coal and Iron.
Smithsonian Institute, Collection of Ores.
State of West Virginia, Geological Collection.
George W. Gordon, Boston, Mass., Glass Sand.
Hampton Cutter and Sons, Woodbridge, N. J., Clays.
J. Kolnigsburg, Huntingdon, Pa., Coke Oven.

GROUP II.

POTTERY, GLASS, ARTIFICIAL STONE, ETC.

Dixon Crucible Co., Jersey City, N. J., Graphitic Crucibles.
Michael Ehret, Jr., Philadelphia, Pa., Granulated Slag Roofing.

GROUP III.

CHEMISTRY AND PHARMACY, WITH THE APPARATUS.

Chas. T. White and Co., New York, Chemicals and Pharmaceutical Preparations.
Waggoner, Gifford and Co., Chicago, Ill., Mixed Paints.
James B. Williams and Co., Glastonbury, Conn., Shaving and Toilet Soaps.
Page, Kidder and Fletcher, New York, N. Y., Coal Tar Products.
Swift White, New York, N. Y., Commercial Fertilizers.
Edward Coe, New Haven, Conn., Automatic Electric Gas Valve.
Andrew O'Neill, Ansonia, Conn., Gas and Water Main Connector.
Thomas Rowland, Brooklyn, N. Y., Steam Stoker.
Charles C. Phillips, Philadelphia, Pa., Varnishes and Japan.
Stimson and Babcock, Boston, Mass., Coach and Car Varnishes.
Penna. Salt Mfg. Co., Philadelphia, Pa., Kryolite Products, Alum and Alum Soda.
Heller and Merz, New York, N. Y., Ultramarine Blue.
Excelsior Gas Machine Co., South Norwalk, Conn., Maxim Gas Machine.

Morris, Tasker and Co., Philadelphia, Pa., Gas Works Machinery.
A. W. Rand, Philadelphia, Pa., "The Victor Gas Machine."
Gilbert and Barker, Springfield, Mass., "Springfield Gas Machine."
Y. D. Townsley, Cincinnati, Ohio, Gas Machine.
Improved Steiner Gas Mach. Co., Philadelphia, Pa., Portable Gas Machine.
Novelty Gas Machine Co., Baltimore, Md., Carburetting Gas Machine.
F. S. Pease, Buffalo, N. Y., Lubricating and Improved Machinery Oils.
A. Lyman Williston, Northampton, Mass., Payson's Indelible Ink.
The Main's Manufacturing Co., New York, N. Y., The Philosopher's Oil Tester.
Crew, Moore and Lerick, Philadelphia, Pa., Illuminating and Lubricating Oils.
Leonard and Ellis, New York, N. Y., Vatroline Cylinder Oil.
Galena Oil Co., Franklin, Pa., Lubricating and Burning Oils from Petroleum.
Chas. K. Smith and Co., Philadelphia, Pa., Whale and Mineral Oils.
N. W. Harkness, Philadelphia, Pa., Refined Petroleum.
Cheeseborough Mfg. Co., New York, N. Y., Vaseline or Petroleum Jelly.
Olephene Oil Co., New York, N. Y., Refined Petroleum.
C. West and Sons, Baltimore, Md., Refined Petroleum.
Devoe Mfg. Co., New York, N. Y., Brilliant Oil and Oil Can Tops.
Gest and Atkinson, Cincinnati, Ohio, Animal, Vegetable, and Mineral Oil, and Candles.
Aladdin Lubricating Oil Works, Pittsburgh, Pa., Petroleum Products.
Charles Pratt and Co., New York, N. Y., Petroleum Products.
E. F. Houghton and Co., Philadelphia, Pa., Lubricating Oils from Petroleum.
W. King, Son and Co., Philadelphia, Pa., Petroleum Oils.
Joseph H. Adams and Son, Peekskill Manufacturing Company, New York City, Sugar Mills.
Taylor, C. Ret and Co., Philadelphia, Pa., Soaps, Pomades, and Perfumes.
Arthur P. Baer and Co. (Agts.), Baltimore, Md., Ext. of Bark for Tanners' Use.
Franco-American Blacking Co., Philadelphia, Pa., Blacking.
John J. Juhln, Pomeroy, O., Bromine.
Frankford Aniline Factory, Frankford, Maine, Aniline Colors.
C. J. Fell and Bro., Agents for George Nelson, London, Philadelphia, Pa., Gelatine.
Farmers' Bone and Fertilizing Co., Bryn Mawr, Pa., Fertilizers.
U. S. Salicylic Acid Works, New York, N. Y., Salicylic Acid.
M. H. Boyé and G. F. Lewis, Philadelphia, Pa., Cottonseed Oil, Manufactured and Refined.
Onondaga Coarse Salt Association and American Dairy Salt Company, Syracuse, N. Y., Salt.
Henry H. Geilfus, Philadelphia, Confectionery.
Felton, Rau and Sibley, Philadelphia, Varnishes.
Fletcher and Dwyer, Lynn, Mass., Burnishing Ink for Heels of Boots and Shoes.
John Annear, Philadelphia, Blacking.
Blymyer Manufacturing Co., Cincinnati, O., Machinery for Sugar Production.
A. F. W. Boden and Co., Milwaukee, Wis., Vinegar.
Thomas Worsley and Co., Philadelphia, Pa., Toilet, Common, and Silicious Soaps.
Geo. E. White, New York, N. Y., Superphosphates, Animal Black, Raw Material for Manures, etc.
Robinson, Brother and Co., Boston, Mass., Toilet Soaps.
C. T. Raynold and Co., New York, N. Y., Colors.
State of West Virginia, Wheeling, Salt and Bromine from Brine Wells.

GROUP IV.

ANIMAL AND VEGETABLE PRODUCTS—MACHINERY.

Wm. A. Miles and Co., New York, Ale.
G. Lemp, St. Louis, Bottled Lager Beer.
Armhauser Brewing Co., St. Louis, Bottled Lager Beer.
Carl Meyer Hofer, Poughkeepsie, Beer.
Val Blatz, Milwaukee, Bottled Lager Beer.
H. Clauser and Son, New York, Bottled Lager Beer.
Bergner and Engel, Philadelphia, Lager Beer.
Moss Brewery, Beer.
Hamar Brewery, Beer.
Valentine Soewer, New York, Beer.
Bonnett, Schenck and Earle, New York, N. Y., Mustard.
Wm. G. Dean, New York, N. Y., Ardenter Mustard.
Weikel and Smith, New York, N. Y., Mustard.
C. J. Fell and Brother, Philadelphia, Pa., Mustard.
Hamton Kelly, East Portland, Oregon, Preserved Fruits.
Alden Fruit Drying Co., Oregon City, Oregon, Preserved Fruits.
W. M. Plummer, Portland, Oregon, Preserved Fruits.
Farmers' Fruit Preserving Co., Lebanon, Del., Preserved Fruits.
Weld and Hill, Medina, N. Y., Farina.
A. D. De Land, Sheboygan Falls, Wis., Cheese.
Geo. W. Briggs, Fredonia, N. Y., Cheese.
John Shattuck, Norwich, N. Y., Cheese.
Z. Wilson, Palmyra, Wis., Cheese.
J. J. Smith, Tomah, Wis., Butter.
P. H. Burchard, Grant Park, Ill., Butter.
E. L. Chipps, Chemung, N. Y., Butter.
S. Farille, Lake Mills, Wis., Butter.
Eastburn Reeder, New Hope, Pa., Butter.
B. Holmes, Fort Atkinson, Wis., Butter.
John Stuart, Manchester, Iowa, Butter.
Daniel Kuntz, Sheboygan Falls, Wis., Cheese.
Avery, Wadsworth and Co., Manchester, Iowa, Butter.
J. G. Cahoe, Fredonia, N. Y., Cheese.
Seth Bonfoy, Winfield, N. Y., Cheese.
O. B. Bennett, Lamartine, Wis., Cheese.
A. D. Farille, Lake Mills, Wis., Cheese.
Moritz Lemmin, Edward, Wis., Cheese.
H. F. Dousman, Waterville, Wis., Cheese.
A. H. Wheaton, Auroraville, Wis., Cheese.
Royal Baking Powder Co., New York, N. Y., Royal Baking Powder.
Concord Dairy Association, Concord, Wis., Cheese.
Hiram Conover, Plymouth, Wis., Cheese.
Carl Roch, Sheboygan, Wis., Cheese.
C. Marshall and Co., Whitewater, Wis., Cheese.
National Dry Hop Yeast Co., Seneca Falls, N. Y., Dry Hop Yeast.
Geo. F. Gantz, New York, N. Y., Sea Foam Baking Powder.
Palmer Baking Powder Co., Philadelphia, Pa., Jones' Unrivaled Baking Powder.
Waterloo Yeast Co., Waterloo, N. Y., Dry Hop Yeast.

John F. Tyrrell and Co., Chicago, Ill., Oatmeal from Native Grain.
Cereal Manufacturing Co., Brooklyn, N. Y., Steam-cooked and Desiccated Cereals.
E. Mackridge and Co., Philadelphia, Pa., Azumea (A Baking Powder).
John Outcalt, Spottswood, N. J., Pearl Meal, Pearl Hominy, Corn Grits, etc.
Edward S. Morris and Co., United States and Africa, Philadelphia and Liberia, Coffee, Palm Oil, Indigo, Ivory, Ginger, etc.
Baltimore Pearl Hominy Co., Baltimore, Md., Sample Hominy, Corn Flour, etc.
George F. Gantz, New York, Sea Foam Baking Powder.
John Wyeth and Bros., Philadelphia, Pa., Papoma (prepared wheat).
W. F. Pragoff, Louisville, Ky., Re-prised Tobacco.
State of Michigan, Wheat, Oats, Rye, Corn, Buckwheat, and Grasses.
State of Iowa, Cereals.
State of West Virginia, Cereals and Tobacco.
State of Kansas, Collection of Grains and Grasses.
State of Oregon, Grains, Grasses, Cereals, Fruits and Vegetables.
State of Missouri, Cereals.
Illinois Department of Agricultural, Cereals.
Commercial Exchange Association, Philadelphia, Pa., Cereals, Flour, Meals, Seeds, and Products of Corn, Wheat and Rye.
Collective Exhibit of West Virginia, Leaf Tobacco.
Waterloo Yeast Co., Waterloo, N. Y., Dry Hop Yeast.
Palmer Baking Powder Co., Philadelphia, Pa., "Jones's Unrivalled Baking Powder."
National Dry Hop Yeast, Seneca Falls, N. Y., Dry Hop Yeast.
Royal Baking Powder Co., New York City, Royal Baking Powder.
V. Martinez y Bor, Key West, Cigars.
Wm. H. Mills, Sandusky, Ohio, Wine.
Kelley Island Wine Co., Kelley Island, O., Wine.
Werk and Son, Cincinnati, O., Wine.
Pleasant Valley Co., Hammondsport, N. Y., Wine.
M. Werk and Sons, Green Township, Cincinnati, Wine.
John A. Huck, Chicago, Ill., Wine.
American Wine Co., St. Louis, Mo., Wine.
Julius Hincke, Egg Harbor City, N. J., Wine.
Pleasant Valley Wine Co., New York State, Wine.
Buena Vista Vinicultural Society, Sonoma, Cal., Wines.
H. M. Naglee, San Bernardino Co., Cal., Wine.
Kohler and Frohling, San Francisco, Cal., American Still Wines.
Chas. Lefranc, San Jose, Cal., Wine.
M. Keller and Co., San Francisco, Cal., Wine.
N. H. Moragne, Pilatka, Fla., Orange Wine.
H. Paulding, Huntingdon, L. I., Champagne Cider.
Urbana Wine Co., Hammondsport, N. Y., Wine.
Urbana Wine Co., Hammondsport, N. Y., Wine.
T. H. Johnson, Bricksburg, N. J., Unfermented Wine.
Alfred Speer, Passaic, N. J., Wine.
A. F. Brecht, Philadelphia, Pa., Wine.
Geo. Poeschel and Scherer, Herman, Mo., Wine.
Stephen F. Whitman and Son, Philadelphia, Chocolate and Cocoa Pastes.
Mrs. Maria H. Bray, Gloucester, Mass., Collection of Marine Plants.
William Massey and Co., Philadelphia, American Stock Ale.
William Massey and Co., Philadelphia, American Stock Porter.
J. Tragesor, New York, Brewers' Copper Utensils.
August Wohlfarth, Williamsburg, L. I., Air and Rotary Beer Pumps and Faucets.

D. Lawrence and Sons, Boston, Mass., Medical Rum.
P. f. Talicz, Pesth, rep. by P. A. Mayer, New York, N. Y., Hungarian Wine.
Valentine Blatz, Milwaukee, Wis., Lager Beer.
Hannis Distilling Co., Philadelphia, Pa., Rye Whisky.
Sattler and Co., Baltimore, Md., Rye Whisky.
Beadleston, Price and Wertz, New York, N. Y., Present use Ale.
Wehrle, Werk and Sons, Middle Bass Island, Ohio, Wine.
J. W. Gilbert, San Augustine, Florida, Orange Wine.
Goetze, F. A., Jersey City, Hudson Co., N. J., Wine Still.
Ohio Valley Wine Co., Evansville, Ind., Sparkling Wine.
Kelley's Island Wine Co., Kelley's Island, Ohio, Wine.
Perkins, Stern and Co., San Francisco, Cal., and New York, N. Y., Wine.
H. M. Naglee, San Jose, Cal., California Brandy.
Geo. W. Middleton and Co., Philadelphia, Pa., Rectified Spirits.
J. Lancroberger and Co., San Francisco, Cal., California Grape Brandy.
Wm. Massey and Co., Philadelphia, Ale.
Gardner and Son, Philadelphia, Porter.
C. H. Evans and Co., Hudson, N. Y., Ale.
Henry Ferrys and Sons, New York, Ale.
Bolden's Brewery, Lansingburgh, Ale.
Rueter and Alley, Boston, Mass., Ale.
Rulsam and Herman, Staten Island, Lager Beer.
Schmitt and Kehne, New York City, Lager Beer.
Jacob Ruppert.
J. Rosale, Boston, Lager Beer.
Philipp Best Brewing Co., Milwaukee, Wis., Lager Beer.
Geo. Bechtel, Staten Island, Lager Beer.
L. Liebman's Sons, Williamsburg, N. Y., Lager Beer.
Conrad Stein, New York City, Lager Beer.
Elias and Betz, New York City, Lager Beer.
Meyer and Bachmann, Staten Island, Lager Beer.
Joseph Ulmig, St. Louis, Mo., Lager Beer.
Joseph Schlitz, Milwaukee, Lager Beer.
F. Lauer, Reading, Pa., Lager Beer.
Wm. Massey, Philadelphia, Bottled Porter.
Vincent, Hathaway and Co., Boston, Ginger Ale.
Bergner and Engel, Philadelphia, Bottled Lager Beer.
Geo. Ehret, New York, Bottled Lager Beer.
S. Liebmann Sons, New York, Bottled Lager Beer.
Robert Smith, Philadelphia, Bottled Ale.
W. A. Miles and Co., New York, Bottled Ale.
Rueter and Alley, Boston, Bottled Ale.

GROUP VI

TIMBER, WORKED LUMBER, PARTS OF BUILDINGS.

Wisconsin Central Railroad Co., Wisconsin, Woods and Planks.
J. G. Harkaness, Fredericksburg, Va., Virginia Sumac.
The State of West Virginia, Woods and Timbers of West Virginia.
Commissioners of Oregon, Oregon, Forest Woods of Oregon.
Wisconsin Central Railroad Co., Woods and Planks.

J. G. Horrkamp, Fredericksburg, Va., Virginia Sumac.
A. P. Baer and Co., Baltimore, Md., Quercitron and Chestnut Oak Barks.
State Board of Iowa, Lansing, Iowa, Collection of Woods.
Department of Agriculture, Botanical Division, Government, United States, Collection of Woods of the.
M. F. Maury, for the State of West Virginia, Woods and Timbers of West Virginia.
Michigan State Agricultural College, Lansing, Michigan, Woods and Lumber.
State of Delaware, Woods and Timbers.
Department of Agriculture, Botanical Division, United States, Colored Drawings of Fungi.
State Geological Survey of New Jersey, Collection of the Woods and Timbers of New Jersey.
Macatee and Bro., Front Royal, Va., Ground Sumac.
Myers Mhe, and Co., Cleveland, Ohio, Marble Mantel.
State Commissioners Maryland, Woods.
State of Kansas, Forest and Cultivated Woods of Kansas.
E. S. Morris and Co., Philadelphia, Camwood (for dyes) from Liberia.
Michael Sarrer, Santa Barbara, California, Mammoth Grape Vine of Santa Barbara, Cal.
R. H. Williams, Milford, Delaware, Quercitron Bark.

GROUP VII.

FURNITURE, UPHOLSTERY, WOODEN WARE.

Lewis Pattberg and Bros., New York, N. Y., Picture Frames.
Z. Cobb and Sons, Wilmington, Del., Furniture and Door Springs.
C. Faser, Philadelphia, Pa., Gilt Tables, Mirror and Picture Frames.
J. C. Anderson, Pittsburgh, Pa., Sash Balance.
American Machine Co., Philadelphia, Pa., Wringing Machine, Fluting Machine.
Samuel James, Philadelphia, Pa., Rotary Color Stand for Artists.
E. Clinton and Co., Philadelphia, Pa., Brushes.
W. Mellen and Co., New York City, Feathers, Live Geese.

GROUP VIII.

COTTON, LINEN, AND OTHER FABRICS, ETC.

Magall Manufacturing Co., Boston, Mass., Patent Anti-Moth Carpet Lining.
Robert Adams, Paterson, N. J., Dyed Mosquito Netting.
A. J. Nellis and Co., Pittsburgh, Pa., Iron Tie for Baling Cotton.
Col. Sydney D. Maxwell, Cincinnati, Ohio, Reports and Statistics.

GROUP IX

WOOL AND SILK FABRICS—MACHINERY.

State of Oregon, Wool.
Collective Exhibit of State of New Hampshire, Wool.
Piqua Woolen Mill, Piqua, Ohio, Felts.
Alfred Dolge, New York, Felts.
Seffarlen and Fretz, Philadelphia, Pa., Rag Carpet Yarns.
Knox Woolen Mill, Camden, Me., Felts.
James Kirkham, Chester, Pa., Cotton and Wove Doeskins.
Dornan Bros. and Co., Philadelphia, Pa., Power Carpet Loom.
Moses Stocking, Wahoo, Saunders Co., Nebraska, Wool.
Robert W. Scott, Franklin Co., Ky., Wool.
William Croskey, Hopendale, Harrison Co., O., Wool.
E. B. Shapleigh, Philadelphia, Pa., Rugs.
R. Parkhurst and Co., Newark, N. J., Burring Machines.
A. J. Durfur, Lane County, Oregon, Wool.

GROUP X.

CLOTHING, FURS, INDIA RUBBER GOODS, ETC

Blaylock and Co., Philadelphia, Silk Hats.
Smithsonian Institute National Museum, Washington, D. C., Furs.
War Department, Flags and Military Costumes.
Navy Department, Flags and Naval Costumes.
Pitou Camille, Philadelphia, Pa., Trophies representing America, Europe, Asia, and Africa.
Pratt, Read and Co., Deep River, Conn., Ivory Combs.
—— Begg, Paterson, N. J., Model Locomotive Train of Passenger Cars and Track.
Employment Society, Providence R. I., Infants' Clothing and Embroideries.
St. John's Guild, New Haven, Conn., Embroidery.
Convent of the Sacred Heart, Elmhurst, Providence, R. I., Knit Goods and Embroidery.
St. Rose's Orphan Asylum, Milwaukee, Wis., Embroidery.
Brooklyn Female Employment Society, Brooklyn, N. Y., Embroidery.
Pennsylvania Industrial Home for Blind Women, Philadelphia, Pa., Knitted Goods, Bead Work, and Baskets.
Employés of American Button Hole Sewing Machine Co., Philadelphia, Pa., Sewing Machine Work.
J. Reynolds and Co., New York, N. Y., Escutcheons for Military and Naval Service.
Miss Sarah R. Bodtker, Wisconsin, Embroidery.
W. B. Carr and Co., Brooklyn, N. Y., Base Balls.
Annie E. Taylor, Philadelphia, Pa., Knitted Goods in Silk and Worsted.
Miss Hall, Philadelphia, Pa., Embroidery for Church Purposes.
Miss Jennie F. Bach, New York, N. Y., Table Cover, Embroidery, and Needle Work.
Mrs. Orpha Conant, Dwight, Ill., Hat of Common Grass.
Mrs. Converse, Worcester, Mass., Embroidery.

Miss Lizzie Todd, Columbus, Ohio, Embroidery.
Mrs. E. B. Shipley, Philadelphia, Pa., Hand-Made Rug.
Mrs. M. S. M. Riley, Louisville, Ky., Embroidery and Needle Work.
Mrs. C. Hewitt Pfordt, Albany, N. Y., Embroidery.
Lockwood Manufacturing Co., Philadelphia, Pa., Paper Collars.
E. J. States, Boston, Mass., Infants' Dresses and Embroidery.
Miss Annie T. Auerbach, Troy, Alabama, Bed Spread of Satin and Silk Crochet Work.
Miss Sarah E. Anthony, Smyrna, Del., Masonic and Historical Embroidered Picture.
Miss Victoria Walker, Providence, R. I., Silk Embroidery.
Lina Fuldner, Milwaukee, Wis., Needlework.
Mrs. W. G. Weld, Jamaica Plains, Mass., Embroidered Panels.
Union Benevolent Association, Philadelphia, Pa., Embroidery and Needlework.
Miss Jennie Whettemore, Charleston, S. C., Worsted Work Picture of General Washington.

GROUP XII.

LEATHER AND MANUFACTURES OF LEATHER, ETC.

Stephen Oliver, Lynn, Mass., Ladies' Fine Hand-Sewed Gaiters, Low Shoes, etc.
D. Whittemore, Boston, Mass., Shoe Machinery.
Swain, Fuller and Co., Lynn, Mass., Shoe Machinery.
Wm. B. Horn and Bro., Philadelphia, Pa., Shoemakers,' Tanners,' and Curriers' Tools.
Elias P. Newton, Gloversville, N. Y., Glove and Mitten Cutting, Dies and Cutting Block.
Jewett and Keating, Buffalo, N. Y., Hemlock Sole Leather (Texas hides).
Perry and Collins, Whitneys, N. Y., Hemlock Sole Leather.
Lapham, Costello and Co., New York, N. Y., Hemlock Sole Leather.
J. S. Rockwell and Co., New York, N. Y., Sheep Leather in a Variety of Colors and Finishes.
Grant and Horton, Ridgeway, Pa., Hemlock Sole Leather.
J. and J. K. Greenawalt, Harrisburg, Pa., Calf and Kip Skins.
Bronx Wool and Leather Co., New York, N. Y., Lamb and Sheep Skins and Morocco, etc.
Adams and Keen, Philadelphia, Pa., Curaçoa Brush Kid.
McNeely and Co., Philadelphia, Pa., Tampico Morocco (colored), for Shoes.
Wentz and Clark, Philadelphia, Pa., Cape, Oil Boot, Brush Grains French Morocco, etc.
Pusey, Scott and Co., Wilmington, Del., South American and French Morocco.
F. Schuman and Son, Philadelphia, Pa., Calf Kid.
Wm. Bush and Co., Wilmington, Del., Tampico and Cape Maroons, and Drill Straight Grains.
Wm. Amber and Co., Philadelphia, Pa., Tampico and Cape French Morocco and Pebbles, etc.
W. Schollenberger and Sons, Philadelphia, Pa., Calf Kid, Russia Leather, and Sheep Skins, for Bookbinders' Use.

Francis O'Callaghan, Philadelphia, Pa., Skivers Tanned and Dyed in various Colors, etc.
A. B. Martin and Co., Lynn, Mass., South American Straight Grains, etc.
Gray Bros., Syracuse, N. Y., Ladies' Fine Hand-Made Welt Work, Shoes, Gaiters, etc.
Connelly and Powers, Boston, Mass., Men's Fine Hand-Sewed and Stitched Boots and Shoes, etc.
Miller, McCullough and Ober, Newark, N. J., Men's Hand-Stitched Team or Gang Work.
Jacob Zaun and Son, Philadelphia, Pa., Hand-Made Boots and Shoes for Custom Trade.
A. R. DeHaven and Son, Philadelphia, Pa., Ladies' Hand-Made Custom Work, Gaiters, etc.
C. Benkert and Son, Philadelphia, Pa., Gents' Fine Custom Hand-Sewed Boots and Shoes and Gaiters.
Edwin A. Brooks, New York, N. Y., Men's and Ladies' Cork Sole Boots, Shoes, and Gaiters.
Ernest J. Thierry, New York, N. Y., Gents' Gaiters, High and Low Shoes, and Slippers.
Burt and Mears, New York, N. Y., Men's Fine Hand Team Work, Boots, Shoes, and Gaiters.
M. B. and J. Canfield, Newark, N. J., Men's Hand-Stitched Team Work.
Meriden Britannia Co., West Meriden, Conn., Silver-Plated Goods.

GROUP XIII.

PAPER, STATIONERY, PRINTING AND BOOKMAKING.

Bullock Printing Press Co., Philadelphia, Pa., Rotary Perfecting Web Printing Press.

GROUP XIV.

APPARATUS OF HEATING, LIGHTING, ETC.

Peter Carrigan, Philadelphia, Plumbing, Copper Work, Bath Tubs, Food Tins, Links, Copper Kitchen Utensils.
Providence Gas Burner Co., Providence, R. I., Gas Burners, Drop Light Sockets, etc.
Woods, Sherwood and Co., Lowell, Mass., Tin-Plated Wire Ware.
Cornelius and Sons, Philadelphia, Pa., Gas Fixtures.
Wilhelm and Newman, Philadelphia, Pa., Post Lanterns, Silvered Mica Reflectors.
F. H. Lovell and Co., New York City, Drummond Kerosene Burner, Centennial Chimney, and Felt Wick.
Bradley and Hubbard Manufacturing Co., Gas and Oil Fixtures and Lamps.
Archer and Pancoast Manufacturing Co., New York City, Gas Fixtures.
C. F. A. Heinrichs, New York City, German Student Lamps.

C. L. Hayward and J. M. Bruce, Boston, Mass., Vesper Elevating Street Lamp Post.

Christoph, Rusner and Co., New York, Summer Queen Oil Cook Stove

Open Stove Ventilating Company, New York City, "Fire on the Hearth" Parlor Stove.

Richardson, Boynton and Co., New York City, Boynton's Open Franklin "Tile" Portable Stove.

Mrs. Charlotte H. Sterling, Gambier, Knox Co., O., Dish Washing and Drying Machine, for Washing and Drying Dishes without the wetting of the Hands or the use of a Brush or Cloth of any kind.

Lalance Grosjean, New York City, Sheet Metal Culinary Utensils, Stamped or Pressed from Iron, Brass, Copper, and Tin Plates, etc.

General M. C. Meigs, G. M. G., Washington, D. C., Hydrodioptric Light.

J. Hall Rohrman and Son, Philadelphia, Pa., Groceries, Coffee, Tea, and Spice Caddies and Scales, Safe Deposit, Boxes for Banks, Security Companies, etc.

L. F. Dupaignet and Huot, New York City, N. Y., Imperial French Cooking Range, Imperial Maracaibo Coffee and Tea Urns, Copper Ware and Cooking Utensils, etc.

Ansonia Brass and Copper Co., New York City, N. Y., Patent Spur, Brass Kettles.

Charles F. Herris, Philadelphia, Pa., Adjustable Elbow for Stove or Heater.

Corrugated Elbow Company, New York City, N. Y., Corrugated Sheet Metal Elbows, made from one piece, for Stove and other Pipes.

Sweet, Quimby and Perry, Troy, N. Y., Graphic Parlor Stove.

Missouri Valley Novelty Works, St. Joseph, Mo., Combination Kitchen Safe.

Fuller, Warren and Co., Troy, N. Y., Stoves, Furnaces, Ranges, etc.

B. F. Sturtevant, Boston, Mass., Machine for drying lumber, brick, wool, cotton, cloth, hosiery, corn and other grains, leather, glue, tobacco, etc., and for heating and ventilating public buildings, manufactories, etc.

John Grossius, Cincinnati, O., Patent School-House Ventilating Stove.

The Odorless Excavating Apparatus Co., Baltimore, Md., Machine for the emptying of vaults, sinks, cesspools, etc., without offence.

Charles Burnham and Co., Philadelphia, Pa., Gas Cooking Stoves, Reflecting Parlor Gas Stoves, Gas Heating Stoves.

Cooper, Jones and Cadbury, Philadelphia, Pa., Water Closets, Compression Faucets, Pumps, Fountain Jets, Water Gauges, etc.

J. D. Cook, Toledo, O., Water Tank for public water supply in locations inaccessible to natural elevations of sufficient altitude to warrant the construction of earthen or other reservoirs; Auxiliary Stand Pipe, for the service, to obviate the use of portable engines.

David W. Law, Gloucester, Mass., Ice Crusher.

Thomas S. Dixon and Sons, Philadelphia, Pa., Grates, Gas Logs.

Bissell and Co., Pittsburgh, Pa., Isaac Dupps' Patent Railroad Car Heaters.

J. Reynolds and Son, Philadelphia, Pa., Shaking and Clinker-Cutting or Grinding Grate, for house-warming furnace or apparatus.

Bissell and Co., Pittsburgh, Pa., Pittsburgh Elevated Oven Cooking Range.

Bissell and Co., Pittsburgh, Pa., Peerless Radiating Shaking Grate.

Henry C. Meyer and Co., New York City, The Fuller Patent Faucet.

Johnson, Black and Co., Erie, Erie Co., Pa., Radiant Home Base Burning Stoves, Radiant Home Furnace.

Dr. David B. Sturgeon, Toledo, O., American Depurating Bath.

Swett, Quimby and Perry, Troy, N. Y., Empire Heating Range.

Hitchcock Lamp Company, Watertown, Jefferson Co., N. Y., a Mechanical Lamp for burning Heavy Oils.

Geo. Wagner, Washington, D. C., Transparent Glass Ventilator.
J. W. Bartlett, New York City, Improved Street Lamps.
Globe Gas-Light Co., Philadelphia, Pa., Self Gas-Making Street Lamps.
H. H. Doty, Norfolk, Va., Argand and Triangular Kerosene Burners.
Edward Miller, Meriden, Conn., Lamps and Lamp Trimmings.
Mitchell, Vance and Co., New York City, Gas Fixtures and Ecclesiastical Ware.
Walton Bros., New York City, Noiseless Open Base Steam Radiator and Ship's Galley.
Walton Bros., New York City, Lanterns.
Mt. Washington Glass Works, New Bedford, Mass., Crystal Chandeliers, Opal Lights, Globes and Shades, etc.
Smith Bros., New Bedford, Mass., Glass Shades and Globes.
Magee Furnace Company, Boston, Mass., Stoves, Ranges, and Furnaces.
Tatham and Bros., New York, Tin-lined Iron Pipe, Tin-lined Lead Pipe, Block Tin Pipe.
Wm. Page and Co., Boston, Mass., Railway and Steamship Lamps.
S. A. Wight, Philadelphia, Pa., Ventilator and Dust Trap.
Baker, Arnold and Co., Philadelphia, Pa., Gas Fixtures.
J. C. Bates, Philadelphia, Pa., Ventilators.
August Wilhelm, Philadelphia, Pa., Ceiling Reflector.
Protective Ventilator Co. (T. W. Bracher), New York City, Ventilators.
Cleveland Non-Explosive Lamp Co., Cleveland, O., General Kerosene Goods, Metallic Safety Lamps, and Nickel Plating.
Barstow Stove Company, Rhode Island, Crystal Fire-Place Heater.
Otto Zwietusch, Milwaukee, Wis., Crystal Faucet, Drought Apparatus.
Dreer, Smith and Dreer, Philadelphia, Pa., Berford Gas Sunlight Apparatus.
American Reflector Co., Philadelphia, Pa., Metallic Reflector.
Richardson, Boynton and Co., New York City, Improved Gas-tight Furnace.
Richardson, Boynton and Co., New York City, Baltimore Fireplace Heater.
C. A. Blessing, Philadelphia, Copper Bath Tubs.
Chas. A. Blessing, Philadelphia, Combination Cock for Bath Tub.
Jonathan Miller, Meriden, Conn., Coffee, Tea and Extract Press.
Job Bartlett and Sons, Philadelphia, Wrought Iron Warm Air Furnace.
C. W. Parker, Philadelphia, Ice Cream Freezer.
Reading Hardware Co., Reading, Apple Parer.
Job Bartlett and Sons, Philadelphia, London Kitcheners and Charcoal Boilers.
Dr. G. W. H. Calver, Columbus, N. J., Household Ironing Machine.
A. G. Myers, New York City, Feild's Flush Tank.
Alex. M. Leslie, New York City, Zero Refrigerators.
F. J. Walker, M.D., Philadelphia, Water Filter.

GROUP XV.

BUILDERS' HARDWARE, TOOLS, CUTLERY, ETC.

Stafford Manufacturing Co., New York, Stencils and Key Rings.
W. J. Flanigan and Co., Philadelphia, Wrenches named "Samson Wrenches."
E. Mills and Co., Philadelphia, Brace Bits, Saw Pads, Screw Drivers.
American File Co., Philadelphia, Machine-made Files and Hand-cut Rasps.
F. H. Evans, New York, Expansion Bolts.

Hermann Goldsmith and Co., New York, Razor Strop and Russian Leather.
Alex. Krumbhaar, Philadelphia, Files and Rasps.

GROUP XVI.

MILITARY AND SPORTING ARMS—WEAPONS, ETC.

Laflin and Rand Powder Co., New York City, N. Y., Magnetic Electric Blasting Machine.
Laflin and Rand Powder Co., New York City, N. Y., Frictional Electric Blasting Machines.
Engineer Bureau, War Department.
Ordnance Bureau, War Department.
Quartermaster's Bureau, War Department.
Signal Bureau, War Department.
Bureau of Ordnance, Navy Department.

GROUP XVII.

CARRIAGES, VEHICLES, AND ACCESSORIES.

A. Lynch, Philadelphia, Harness.
Benezet and Co., Philadelphia, Carriage Springs.
McLear and Kendall, Wilmington, Delaware, Four Pleasure Carriages.
Newyear and Sheldon, Birmingham, Connecticut. Child's Carriage.

GROUP XIX.

VESSELS, AND APPARATUS OF TRANSPORTATION.

The Delaware River Iron Ship Builders, Chester, Pa., Model of Steam Ships.
F. W. Page, New York, N. Y., Oars.
John Englis and Son, Brooklyn, N. Y., Models and Calculations of Steam Ships.
The Rider Life Raft Co., New York, Two Life Rafts.
Thos. F. Rowland, Green Point, L. I., Iron Buoy.
Marcus Ormsbee, Brooklyn, N. Y., Life Saving Suit.
Frank G. Fowler, Bridgeport, Conn., Steam Steering Propeller.
United States Gov't, Appertaining to Exhibits to the United States Gov't.

GROUP XX.

MOTORS, HYDRAULIC AND PNEUMATIC APPARATUS.

B. Fitts, Worcester, Mass., Steam Whistle for Use During the Exhibition.
Lathrop Anti-Friction Co., New York, N. Y., Composition for Bearings
Wickersham and Brothers, Philadelphia, Pa., Oil Cups and Feeders.
William Ruoff, Philadelphia, Pa., Double and Single Geared Jack Screws.
Leng and Ogden, New York, N. Y., Syphon Pumps, Lever and Cam Gate Valves.
M. C. Isaacs and Co., Chicago, Ill., Steel Wire Brushes.
Hilborne L. Roosevelt, New York, N. Y., Hydraulic Automatic Organ Blower.
U. S. Metallic Spring Packing Co., Boston, Mass., Steam Pressure Packing.
Jerome Wheelock, Worcester, Mass., Automatic Cut-off Engine.
Boston Hydraulic Mortar Co., Boston, Mass., Hydraulic Automatic Organ Blower.
Jerome Wheelock, Worcester, Mass., Steam Engine Piston Packing.
Crane Bros., Westfield, Mass., Japanese Paper Belting.
James Haworth, Philadelphia, Pa., Hydrant Turbine.
Pusey, Jones and Co., Wilmington, Del., Expanding Pulleys and Temper Cut-off for Steam Engines.
Hertzel Herman, Philadelphia, Pa., Speed Indicator.
Schutte and Goehring, Philadelphia, Pa., Pumps.
A. and F. Brown, New York, N. Y., Hangers and Pulleys.
Neafie and Levy, Philadelphia, Pa., Steam Engines.
H. Vogt, Brooklyn, N. Y., Boiler.
Jackson Richards, Philadelphia, Pa., Piston Packing.
Richard Dudgeon, New York, Rotary Engine.
Williamson Bros., Philadelphia, Pa., Hoisting Engine with Spur and Frictional Gearing.
R. J. Barr, Philadelphia, Pa., Steam Trap.
Canfield Manufacturing Co., Philadelphia, Pa., Packing.
A. and F. Brown, New York, N. Y., Engine and Pulleys.
Charles Zoope, New York, N. Y., Grate Bars.
E. H. Ashcroft, Boston, Mass., Steam and Vacuum Gauges, Safety Valves.
Baxter Steam Engine Co., New York, N. Y., Steam Engines.
George B. Brayton, Philadelphia, Pa., Hydro-Carbon Engine.
J. C. Hoadley Co., Lawrence, Mass., Portable Steam Engines.
J. H. Mitchell, Philadelphia, Pa., Vertical Steam Engines.
George W. Harrold, Rochester, N. Y., Automatic Steam Trap.
Roland Rhett, Baltimore, Md., Spring Motor for Sewing Machines.
Josiah A. Osgood, Boston, Mass., Metallic Spring Packing.
Levi F. Smith, Philadelphia, Pa., Boiler Try Cocks.
Henry S. Lansdell and John S. Long, New York, N. Y., Lever and Cam Valves for Water, Steam, etc.
L. Katzenstein and Co., New York, N. Y., Metallic Packing for Piston Rods and Valves' Stems.
Ames Iron Works, Oswego, N. Y., Portable Steam Engine.
John E. Lindlaw, New York, N. Y., Fire Escape.
Love, Grove and Co., Philadelphia, Pa., Vertical Tubular Boilers.
Thos. Mills and Bro., Philadelphia, Pa., Vertical Engine and Ice Cream Freezer Combined.
Craig and Brevoort, New York, N. Y., Condenser for Steam Pumps.

James L. Jackson, New York, N. Y., Improvements in Making Patterns and Castings.
F. D. Chase, Boston, Mass., Ventilating Deck Iron.
L. J. Knowles and Bro., Hand Power Cloth Press.
Philadelphia Hydraulic Works, Philadelphia, Pa., Steam Pump.
Locke and Colt, Davis Elevating Signal Tower.
Mathias Pennypacker, Philadelphia, Pa., Hand Hoisting Machine.
Aultman, Miller and Co., Akron, Ohio, Self-Registering Dynamometer.
Stanley G. Flagg and Co., Philadelphia, Pa., Fittings for Gas, Steam, and Water Pipes.
Fred. Lunkenheimer, Cincinnati, Ohio, Lubricators, Oil Cups, Steam Valves, etc.
Wm. Powell and Co., Cincinnati, Ohio, Valves and Lubricators.
E. A. Street, New York, N. Y., Portable Fire Pump.
C. R. Patterson, Pittston, Pa., Suction and Blast Fan.
W. H. Wilson, New York, N. Y., Firemen's Hats and Belts.
Alfred Gomersall, Philadelphia, Pa., Engines and Pumps.
Merril and Keitzer, Baltimore, Md., Gauge Cocks.
A. Gawthrup and Son, Wilmington, Del., Glass Models of Hydraulic Rams, with Regulators in operation.
Union Brass Works, Powell and Co., Cincinnati, O., Lubricators, Valves, etc.
McNab and Harlin Manufacturing Co., New York, N. Y., Valves, Cocks, Whistles, Water Gauges.
R. T. Houghton, New York, N. Y., Boiler and Tube Compound for Removing and Preventing Scale.
Rider, Wooster and Co., Walden, N. Y., Compression Engines, Operating with Valves, using Compressed and Heated Air.
George Draper and Son, Hopedale, Mass., Self-Lubricating Box.
Christopher Brown and Co., Fitchburg, Mass., Steam Engine.
John T. Shuster, Philadelphia, Pa., Felting for Boilers and Steam Pipes.
C. M. O'Hara and Co., Boston, Mass., Felting for Covering Steam Boilers and Pipes.
Isaac U. Forbes, Philadelphia, Pa., Steam Engine Valves and Gear.
John McConn, Philadelphia, Pa., Hot Water Boiler and Steam Radiator for Heating Purposes.
J. B. Hoyt, New York, N. Y., Furnace for the Combustion of Bituminous Coal.
E. A. L. Roberts, Titusville, Pa., Steam Engine.
Knickerbocker Ice Co., Philadelphia, Pa., Ice Tools, Elevators, and Ice Machinery.
Gould Manufacturing Co., Seneca Falls, N. Y., Hand Fire Engine.
B. S. Nichols and Co., Burlington, Vt., Vertical Steam Fire Engine.
New York Belting and Packing Co., New York, N. Y., Rubber Belting, Packing, Hose, etc.
Odorless Excavating Co., Philadelphia, Pa., Odorless Excavating Apparatus.
Matthewman and Johnson, New Haven, Conn., Deodorizing Excavating Apparatus.
Hubbard and Aller, Brooklyn, N. Y., Steam Pumps.
Colwell Lead Co., New York, N. Y., Lead Pipe, Block Tin, and Tin-Lined Lead Pipe.
Henry Q. Hawley, Albany, N. Y., Water Motors.
Crane Brothers, Chicago, Ill., Model of Hydraulic Elevator.
Isaac Hyneman, Philadelphia, Pa., Water Excavator.
W. D. Andrews and Bro., Centrifugal Pumps.
Sluthour and Mintzer, Philadelphia, Pa., Force and Bilge Hand Pumps.
Sluthour and Mintzer, Philadelphia, Pa., Hand Fire Engines.

Putnam Machine Co., Fitchburgh, Mass., Steam Engine and Turbine Wheel.
Josiah Gates and Sons, Lowell, Mass., Leather Hose and Leather Belting.
Crane Bros., Chicago, Ill., Steam Pumps, Elevator Rope, Hose Nozzles.
R. D. Wood and Co., Philadelphia, Pa., Fire Hydrants, Cast-Iron Pipes, Valves.
Norwalk Iron Works Co., South Norwalk, Conn., Non-expansive Steam Pumps, Steam Engines.
La France Manufacturing Co., Elmira, N. Y., Rotary Steam Fire Engine Pumps and Engines.
Jas. U. Tufts, Boston, Mass., Automatic Fountains, Soda Water Apparatus, etc.
W. D. Andrews, New York City, N. Y., Boiler and Elevator.
Thomas Shaw, Philadelphia, Pa., Hydraulic Valves, Test Pumps, and Gauges.

GROUP XXI.

MACHINE TOOLS FOR WOOD, METAL, AND STONE.

Cornell University Machine Shop, Prof. John E. Sweet, Ithaca, N. Y., Foot Lathe, Gauges, and other Tools.
War Dept., Ordnance Section, Cartridge and Gun-Making Machinery.

GROUP XXII.

MACHINES AND APPARATUS USED IN SEWING, ETC.

Isaac Fenno and Co., Boston, Mass., Cloth-Cutting Machines.
Albin Warth, Stapleton, N. Y., Cloth-Cutting Machines.
G. C. Walters, Philadelphia, Pa., Sewing Machines for Green Hides.

GROUP XXIII.

AGRICULTURAL MACHINES, IMPLEMENTS OF AGRICULTURE, ETC.

William Earl, Nashua, N. H., Machine for Shearing Sheep.
Thomas Patent Smoothing Harrow Co., Geneva, N. Y., Harrow.
Blymer Manufacturing Co., Cincinnati, O., Fixed Horizontal Engine for Sugar Machinery.
Fairbanks and Ewing, Philadelphia, Pa., Cheese Factory and other Scales.
R. H. Allen and Co., New York, N. Y., Phillips Spiral Corn Husker.
Wheeler and Milick Co., Albany, N. Y., Straw Preserving Rye Thresher.
Randolph Bros., New York, N. Y., Ditching and Draining Machine.
W. L. Boyer and Bro., Philadelphia, Pa., Combined Metal Mill and Bolting Screen.

John M. Smith and Son, Philadelphia, Pa., Cedar Vats and Tanks.
George J. Burkhardt, Philadelphia, Pa., Cedar Tank.
C. H. Dana, West Lebanon, N. H., Labeling Machine.
Jona. Bigelow and Co., Boston, Mass., Patent Labeling Machine.
E. Penn Worrall, West Chester, Pa., Double Bee Hive.
Osborne Manufacturing Co., New York, N. Y., Bird Cages.
Hendriks and Co., Bird Cages.
Murphy and Broom, Philadelphia, Pa., Wire Cages and Wire Work, etc.
White Mountain Freezing Co., Laconia, N. H., Freezing Machine for Ice Cream.
Iron Milk Can Co., New York, N. Y., Milk Cans.
T. Hyde Fisher, Chicago, Ill., Refrigerators.
E. B. Smith, Albany, N. Y., Dry Air Refrigerator.
C. G. Blatchley, Philadelphia, Pa., Ice Cream Freezer.
R. H. Allen and Co., New York, N. Y., One Row Corn Drill.
Clement and Dunbar, Philadelphia, Pa., Cedar Ware, Churns, and Ice Cream Freezers.
R. H. Allen and Co., New York, N. Y., Model of Victor Brick-Making Machine.
Chadorn and Coldwell, Newburgh, N. Y., Lawn Mowers.
Jewell and Stevens, New York, N. Y., Jewell's Self-Opening Cans.
Milburn Wagon Co., Toledo, Ohio, Farm Wagons.
Kansas Wagon Mfg. Co., Leavenworth, Kan., Farm Wagons.
Lehigh Car and Wagon Mfg. Co., Stemton, Pa., Wagons, Farm and Express.

GROUP XXIV.

INSTRUMENTS OF MEDICINE, SURGERY, ETC.

National Surgical Institute, Indianapolis, Ind., Orthopedic and other Surgical Appliances.
Alfred A. Gilbert, Philadelphia, Pa., Medicine Chests and Saddle Bags.
E. F. Houghton and Co., Philadelphia, Pa., Cosmoline.

GROUP XXV.

INSTRUMENTS OF PRECISION, RESEARCH, ETC.

Wallace and Sons, Ansonia, Conn., Regulator for Electric Light.
Austin G. Day, New York City, Insulated Telegraph Wire (Kerite).
E. S. Ritchie and Sons, Boston, Mass., Ritchie's Floating Compass.
E. S. Ritchie and Sons, Boston, Mass., Marine Azimuth Compass.
E. S. Ritchie and Sons, Boston, Mass., Prof. Lyman's Deep-sea Wave Machine.
E. S. Ritchie and Sons, Boston, Mass., Philosophical Apparatus.
John Bliss and Co., New York City, Marine Chronometers and Portable Transits.
Pulvermacher Galvanic Co., Cincinnati, Ohio, Galvanic Chains, Belts, etc.

American Watch Co., Waltham, Mass., Watches.
T. A. Edison, New York City, Electrical Pen and Duplicating Press.
B. F. Greene, Washington, D. C., Adjustable Binnacle, Polar Corrector and Vertical.
W. H. Pile and Sons, Philadelphia, Pa., Specific Gravity Apparatus, Graduated Tubes, etc.
E. R. McKean, Washington, D. C., Cask and Tank Gaugers.
Eagle Square Manufacturing Co., S. Shaftesbury, Vt., Steel Squares and Rules.
Stanley Rule and Level Co., New Britain, Conn., Rules, Levels, etc.
Gustav Blunck, New York City, Parallel Ruling Machine.
Prof. Robert H. Thurston, Hoboken, N. J., Machine for Testing Strength of Materials.
Thos. Shaw, Philadelphia, Pa., Pressure Gauge.
Osterfeld and Eickemeyer, Yonkers, N. Y., Dynamometer.
Thos. A. Edison, U. S. C. Ex., New York City, Edison's Pen and Duplicate Press.
W. J. Phillips, Telegraph Director, Philadelphia, Pa., Printing Telegraph Instrument.
Frederick Meyer, Newark, N. J., Weighing Scales.
Price, Lisseth and Co., Philadelphia, Pa., Weighing Scales.
Buffalo Scale Co., Buffalo, N. Y., Weighing Scales.
John C. Dell, Philadelphia, Pa., Scales and Weights.
Becker and Sons, New York, Balances of Precision.
Henry Troemner, Philadelphia, Pa., Scales and Balances.
Riehle Bros., Philadelphia, Pa., Weighing and Testing Machines.
Brandon Manufacturing Co., Brandon, Vt., Weighing Scales.
E. and T. Fairbanks and Co., St. Johnsbury, Vt., Scales and Weighing Beams.
Union Water Meter Co., Worcester, Mass., Water Meters.
Fales, Jenks and Sons, Pawtucket, R. I., Water Meters.
Samuel Archbold, Philadelphia, Pa., The Marsland Water Meter.
W. E. Desper and Co., Worcester, Mass., Water Meter.
J. W. Maclay, New York City, Nicolas and Chamon's Water Meter.
National Meter Co., New York City, The Gem Water Meter.

GROUP XXVI.

ARCHITECTURE AND ENGINEERING.

Penn Geological Survey Commission, Geological Map in Relief (Pennsylvania).
Penn Geological Survey Commission, Geological Charts, Relievos, and Profiles (Pennsylvania).
Engineers' Department Army United States, Washington, D. C., Maps and Charts of the Survey of the Lakes.
Engineers' Department Army United States, Washington, D. C., Reports and Maps of Surveys of Various Parts of the United States.
Interior Department, Washington, D. C., Statistical Maps.
Signal Corps United States Army, Washington, D. C., Meteorological Maps.
Richard P. Morgan, Bloomington, Ill., Elevated Steam Railway.

Detroit Bridge and Iron Works, Detroit, Mich., Bridge over Missouri River at St. Joseph, Mo.
F. C. Lowthrop, Lowthrop and Henderson, Trenton, N. J., Plans of Iron Bridges and Turn Tables.
General Wm. Sooy Smith, Maywood, Cook County, Ill., Drawings of Pneumatic Caisson.
Fire Proof Building Co. of New York, New York, Hollow Blocks and Hollow Bricks.
Garry Iron Roofing Co., Cleveland, Ohio, Iron Roofing.
United States Hoisting and Conveying Machine Co., New York, Hoisting and Conveying Machines.
The Gunpowder Pile Driver Co., Philadelphia, The Gunpowder Pile-Driving Machine.
Pennsylvania Geological Survey Commission, Philadelphia, Geological Map in Relief (Pennsylvania).
Pennsylvania Geological Survey Commission, Philadelphia, Geological Charts, etc. (Pennsylvania).
Keystone Bridge Co., Philadelphia, Illinois, and St. Louis, Steel-Arched Bridge.
Engineer Department Army United States, Washington, D. C., Maps and Charts.
Engineer Department Army United States, Washington, D. C., Military Maps and Reports.
Interior Department, Washington, D. C., Statistical Maps.
Signal Corps Army United States, Washington, D. C., Meteorological Maps.
Keystone Bridge Co., Philadelphia, Improvement in Pivot or Spring Bridges.
United States Coast Survey, Washington, D. C., Maps and Charts.
United States Geological Survey of Territories, U. S. Geological Maps.

GROUP XXVII.

PLASTIC AND GRAPHIC ART.

Wells and Hope Company, Philadelphia, Pa., Chromo-Lithograph Iron Show Cards.

GROUP XXVIII.

EDUCATION AND SCIENCE.

Major J. W. Powell, Geographical and Geological Maps.
Bureau of Coast Survey, Washington, Reports, Charts, Instruments, and Implements.
Dr. F. V. Hayden, Geographical and Geological Maps.
Department of Agriculture, Washington, Reports, Charts, Scientific Collections.
Bureau of Signal Service, Washington, Reports, Charts, Apparatus.
Miss Grace A. Lewis, Pa., Zoological Chart.
Lobdell Car Wheel Co., Wilmington, Del., Cars and Locomotives.
Miss Grace Anna Lewis, Pa., Geological Chart.

GROUP XXIX.

HORTICULTURAL APPLIANCES, ETC.

George Such, South Amboy, N. J., Hothouse and Greenhouse Plants.
George Such, South Amboy, N. J., Decorative Foliage Plants.
George Such, South Amboy, N. J., Ferns.
Hoopes Bros. and Thomas, West Chester, Pa., Ivies.
Hoopes Bros. and Thomas, West Chester, Pa., Evergreen Trees and Plants.
John Dick, Fifty-third Street and Darby Road, Philadelphia, Pa., Decorative and Foliage Plants—Ornamental.
John Dick, Fifty-third Street and Darby Road, Philadelphia, Pa., Hothouse and Greenhouse Plants.
S. B. Parsons and Sons, Flushing, Long Island, N. Y., Ornamental Trees and Shrubs.
Miller and Hayes, Germantown, Philadelphia, Pa., Roses.
Miller and Hayes, Mount Airy, Philadelphia, Pa., Ornamental Flower-Garden Plants—Arrangement.
Miller and Hayes, Mount Airy, Philadelphia, Pa., Tree Ferns.
S. B. Parsons and Sons, Flushing, Long Island, N. Y., Ferns.
Miller and Hayes, Germantown, Philadelphia, Pa., Evergreen Trees.
Mahlon Moon, Morrisville, Pa., Hothouse and Greenhouse Plants.
Mahlon Moon, Morrisville, Pa., Ornamental Trees and Shrubs.
R. Buist, Philadelphia, Pa., Plants.
R. Buist, Rosedale Nurseries, Philadelphia, Pa., Roses.
Peter Henderson, 35 Cortland Street, New York, N. Y., Decorative and Ornamental Foliage Plants.
Peter Henderson, 35 Cortland Street, New York, N. Y., Decorative and Foliage Plants.
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